Specification

Inst CPU & Memory CPU: Dail Core API Crimes 40 Longer 1004: Host CPU & Memory DBP 1060 1G8 µc Instructure CD Pager Spp Image 1 Funct Loading CD Pager Spp Image 1 CD CD DA CDP, CDP, CDP, KDV DDP, RVW Image 1 Darpay 77 FTI CDD, 1007 x 600 paekly "Abit comment to ext server via HDML out" Image 1 Image 1 Mark Devel Key SkapMum SColl DN, Remote Carefor Costmand Rennes App Cric DS and Android devices Web Interface Image 1 Im	Model name	cocktailAudio X45	ocktailAudio X45			Remarks	
$ \begin{array}{c c c c c } \hline $$ VMD $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$ $$$		CPU: Dual Core ARM C					
CD Player Type Foot Landrag CD, CDA, CDA, CDA, CDA, RUNDARW Display 70*TFTLCD1(024:x400plos6)17 slot to connect to ext, screen Vai HDM out)	Host CPU & Memory	Main Memory: DDR-10					
CDHayer Supported media CD, CD-AC, CD-R, CD-R, CD-RW Display 7/0" TFLCD(1):024 x600pdb(h" able to connect to excerne via HDMI oud.							
*** Supported metala CDS (CDA) CDA) CDA) CDA) CDA WW Display 70°TELCD1 (2024 x00)xeekly*able to concert to ext. some with DMI out) ************************************	CD Playor	Туре		Front Loading			
Interface Key & Jog MultiumeScottlik, Researce Control. Customized Remote App for OS and Advalid devices, Web Interface XIR, Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR, Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR, Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR, Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR, Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; Stereo) THD + N: 00004% (PRE-OUT) XIR: Dynamic Range: 130dB (Max 45Vms; THD + N: 00004% (PRE-OUT) XIR: Dy	CD Player	Supported media		CD, CD-DA, CD-R, CD-I	RW, DVD-R/RW		
Interface and Andioid devices (Web Interface N.R. Dynamic Range: 13:0dB (Max 45Vms, Storeo) THD +N:000046 Analog Out (Sabe ¹⁰ ES9018K2M Dual DAG Balancid (ME-OUT) N.R. Dynamic Range: 13:0dB (Max 24Vms, Storeo) THD +N:000046 Unbainced (Marbol-Fibed) Headphone Out 635701575chm RCA Symple rate: up to 24bit/1924b2 1 Digital Out (Variable/Fibed) EGNIM X:1 54701575chm RCA Symple rate: up to 24bit/1924b2 1 Digital Out (Variable/Fibed) EGNIM X:1 110bhm, Smple rate: up to 24bit/1924b2 1 Asystem X/RR x 1 110bhm, Smple rate: up to 24bit/1924b2 1 1 Analog Input LNE In x 1 128 Audio Class 20 Output 1 1 Analog Input LNE In x 1 188 RCA at the rais default Xms(controllable 1-34mm) 1 Digital Input GONUL x 1 Sample Rate: up to 24bit/1921b3 1 1 Digital Input GONUL x 1 Sample Rate: up to 24bit/1921b3 1 1 1 Digital Input USB PAG One Not 1 MIR Input default Xms(controllable 3-57-15m/ms) 1 1 1 1 1 1 1 1 1 1 <t< td=""><td>Display</td><td></td><td colspan="2"></td><td></td></t<>	Display						
Analog Out (sbei ¹⁶ (S5018/CMDual DAQ (Sbei ¹⁶ (S5018/CMDual DAQ PEC-OUT) RCA. Dynamic Range 13048 (Max 2Vms, Stereo) FHD + N: 00004% Pise_OUT) RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% Pise_OUT) RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% Pise_OUT) RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% Pise_OUT) RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% Pise_OUT) RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% RCA. Dynamic Range 13048 (Max 2Vms, Stereo) THD + N: 00004% Analog Input TOSI.NK x.1 Stereo Thorace up to 24bit/19204z RCA. Dynamic Range Rate up to 24bit/19204z Analog Input CONUL x.1 Sample Rate up to 24bit/19204z RCA. Dynamic Range Rate up to 24bit/19204z Digital Input CONUL X.1 Sample Rate up to 24bit/19204z RCA. Dynamic Range Rate up to 24bit/19204z Digital Input CONUL X.1 Sample Rate up to 24bit/19204z RCA. Dynamic Rate up to 24bit/19204z Digital Input CONUL X.1 Sample Rate up to 24bit/19204z	Interface						
(sberv ^a ES9018K2M Dual DA) (PRE-CUT) IVDA alreed (PRE-CUT) RCA. Dynamic. Range: 130dB (Max 2Vms, Stereo) THD - Nk 00004%) Headphone Out 635mm Jack, 100mW(+				XLR, Dynamic Range: 130dB (Max 4.5Vrms, Stereo) THD +N: 0.0004%			
Digital out (Variable/Tixed) COAXIAL x1 SPDIE 75shm RCA, Sample rate: up to 24bit/192KHz Digital out (Variable/Tixed) TOS.INK x1 SPDIE 7shm RCA, Sample rate: up to 24bit/192KHz Analog Input ASEMBU/XR x1 1100hm, Sample rate: up to 24bit/192KHz IVER In x1 USB Audio Class 20 Output Analog Input IVER In x1 USB Audio Class 20 Output Analog Input IVER In x1 USB Audio Class 20 Output Digital Input IVER In x1 Sample Rate: up to 24bit/192Khz Digital Input OXXIAL x1 Sample Rate: up to 24bit/192Khz Digital Input TOSLINK x1 Sample Rate: up to 24bit/192Khz USB Audio Input (USB DAC) USB B type connector: USB Audio Class 20 Input (Support up to PCM 384Khz/33Bit, DSD Native 256, and MQAIIe) * * Supported Storage Fard Disk 25*SATA, up to ZBB * * Supported Storage USB Host USB 2005/VTIA x1 at rear * UNR DAB+/FM Radio Selectable for DAM/DABA tor TM Radio				RCA, Dynamic Range: 130dB (Max 2Vrms, Stereo) THD +N: 0.0004%			
Digital out (Variable/Fixed) TOSUNK x 1 SPDIF, Sample rate: up to 24bit/192KHz Image: constraint of the second of the secon		Headphone Out		6.35mm Jack, 100mW+100mW@1Khz, 600ohm, 0.1% THD			
Digital out (Variable/Fixed) AES/EBU/XRL x 1 1100hm, Sample rate-up to 24bit/1924/tz		COAXIAL x 1					
(Variable/Fixed) Absted/Abst X1 100mm_sample rate up to 2400 (Jask 20 Output Image rate up to 2400 (Jask 20 Output) Analog Input LINE In x1 L&R Kn x1 the rear, default 2/mms(controllable 12/mms) Image rate up to 2400 (Jask 20 Output) Analog Input Axx In x1 L&R Kn X1 the rear, default 2/mms(controllable 3-5-1/smVms) Image rate up to 2400 (Jask 20 Output) Digital Input COAVAL x1 Sample Rate up to 2400 (Jask 20 Output) Image rate up to 2400 (Jask 20 Output) Digital Input COAVAL x1 Sample Rate up to 2400 (Jask 20 Output) Image rate up to 2400 (Jask 20 Output) Digital Input COAVAL x1 Sample Rate up to 2400 (Jask 20 Output) Image rate up to 2400 (Jask 20 Output) Digital Input USB Audio Class 20 Input Sample Rate up to 2400 (Jask 20 Output) Image rate up to 2400 (Jask 20 Output) USB Audio Input USB Audio Class 20 Input Sample Rate up to 2400 (Jask 20 Output) Image rate up to 2400 (Jask 20 Output) Supported Storage Hard Disk 25' SATA up to 21B Image rate up to 2400 (Jask 20 Output)	Digital out	TOSLINK x 1		S/PDIF, Sample rate: up to 24bit/192KHz			
USB Audio X1 USB Audio Class 20 Cutput Image: Constraint of the	2	AES/EBU/XRL x 1		· · ·	110ohm, Sample rate: up to 24bit/192KHz		
Analog Input LINE In x 1 L&R RCA at the rear, default 2V/ms(controllable 1-4V/ms) Analog Input Auxin x 1 3:5mm Phone, Jack on the front, default 1V/ms(controllable 0.52V/ms) Phono In x1 MM Input, default 7:5mV/ms(controllable 0.52V/ms) Digital Input COAXIAL x1 Sample Rate up to 24bit/192Khz Digital Input TOSLINK x1 Sample Rate up to 24bit/192Khz USB Audio Input USB By ope connector, USB Audio Class 20 input Sample Rate up to 24bit/192Khz USB Audio Input USB By ope connector, USB Audio Class 20 input *Bigger capacity of storage will be supported by firmware update when available in the market Supported Storage Fard Disk 25* SATA, up to 2TB *Bigger capacity of storage will be supported by firmware update when available in the market TUNER DAB+/FM Radio Selectable for DAB/DAB+ or FM Radio Everal Connectivity USB Host USB305V/1A) x 2 at rear USB305V/1A) x 2 at rear Metwork Wred Ginga Fast Ethernet(10/100/1000Mbs) Minware UAB damage/Diption) HDW10vt Connectivity Connectivity Res 802:11b/g/n WiFI USB dongle(Option) HDW10vt Connective examples server/Client/Media Renderer, Samba Server/Client, FTP Serve, Web Server, etc Minware UAB damage/Dip		USB Audio x 1			USB Audio Class 2.0 Output		
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		HDMI Out x 1		· · · · ·	HDMI Audio Out(*Shared with HDMI Out for external screen)		
$ \begin{array}{ $		LINE In x 1		· · · · · ·	L&R RCA at the rear, default 2Vrms(controllable 1~4Vrms)		
$ \begin{array}{ c c c c } \hline \begin{tabular}{ c c c } \hline \begin{tabuarray}{ c c c c } \hline \begin{tabuarray}{ c c c c } \hline \begin{tabuarray}{ c c c c c c } \hline \begin{tabuarray}{ c c c c c c c } \hline \begin{tabuarray}{ c c c c c c c c c c c c c c c c c c c$	Analog Input	Aux In x 1		3.5mm Phone Jack on the front, default 1Vrms(controllable 0.5~2Vrms)			
Digital Input TOSLINK x 1 Sample Rate: up to 24bit/192Khz USB Audio Input (USB DAC) USB B type connector, USB Audio Class 20 input (support up to PCM 384Khz/32Bit, DSD Native 256, and MQA file) *Bigger capacity of storage will be supported by firmware update when available in the market Supported Storage Hard Disk 25* SATA, up to 2TB 35* SATA, up to 2TB 35* SATA, up to 2TB 35* SATA, up to 7TB *Bigger capacity of storage will be supported by firmware update when available in the market TUNER DAB /FM Radio 25* SATA, up to 7TB 35* SATA, up to 7TB *Bigger capacity of storage will be supported by firmware update when available in the market Connectivity DAB /FM Radio USB JOS/V1A) x 2 at rear USB Lost USB JOS/V1A) x 2 at rear USB Lost Connectivity Network Wired Giga Fast Ethernet(10/100/1000/bls) MQA, PCM 384Khz/32Bit, DSD/DSD64, DSD128, DSD256, DXD/24Bit/352.8KH2), HOM /Qut Concect to external screen(* Shared with HDMI Audio Out) MQA, PCM 384Khz/32Bit, DSD/DSD64, DSD128, DSD256, DXD/24Bit/352.8KH2), HOW/AV/24Bit/192KH2, HD FLAC(24Bit/192KH2), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg Vorbis, PCM, M3U, PLS, etc MAS Network Protocols Supported UPhP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc Supported Internet Radio Airable Toroidal Transformer For audio signal management Toroidal Tran		Phono In x 1		MM Input, default 7.5mVrms(controllable 3.75~15mVrms)			
AES/EBU XLR x 1 Sample Rate: up to 24bit/192Khz USB Audio Input (USB DAC) USB B type connector, USB Audio Class 20 input (support up to PCM 384Khz/32Bit, DSD Native 256, and MQA file) * Bigger capacity of storage will be supported by firmware update when available in the market Supported Storage Hard Disk 2.5" SATA, up to 2TB 3.5" SATA, up to 2TB * Bigger capacity of storage will be supported by firmware update when available in the market TUNER DAB+/FM Radio Selectable for DAB/DAB+ or FM Radio Connectivity USB Host USB 30(SV/1A) x 2 at rear USB20(SV/1A) x 1 at front USB and CV/1A Connectivity Network Wireless(Option) * 802.11b/g/n WiFI USB dongle(Option) MQA, PCM 384Khz/32Bit, DSDDSD64, DSD 128, DSD256), DXD024Bir/352.28KHz), HDWM/2Bir/192KHz), HD FLAC(24Bir/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg Vorbis, PCM, M3U, PLS, etc Mireless(Option) * 802.11b/g/n WiFI USB dongle(Option) Network Protocols UPnP/(DLNA) Server/Client/Media Renderer: Samba Server/Client, FTP Server, Web Server, etc Internet Radio 2.5 Supported Online Music Services TIDAL, TDAL, MQA, Deezer, Qobuz, Napster, Spotify Connect 2.5 Supported OSD Ianguages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) For audio signal management <td></td> <td colspan="2">COAXIAL x 1</td> <td colspan="2">Sample Rate: up to 24bit/192Khz</td> <td></td>		COAXIAL x 1		Sample Rate: up to 24bit/192Khz			
USB Audio Input (USB DAC) USB B type connector, USB Audio Class 20 input (support up to PCM 384Khz/32Bit, DSD Natve 256, and MQA file) * Bigger capacity of storage will be supported by firmware update when available in the market Supported Storage Hard Disk 2.5* SATA, up to 2TB SSD * Bigger capacity of storage will be supported by firmware update when available in the market TUNER DAB+/FM Radio Selectable for DAB/DAB+ or FM Radio Connectivity USB Host USB30/SV/1A) x 2 at rear USB20/SV/1A) x 2 at rear USB20/SV/1A) x 1 front Connectivity Network Wired Giga Fast Ethernet(10/100/1000Mbs) HDMI Out Connect to external screen(* Shared with HDMI Audio Out) Codec & Format supported WPnP(DLNA) Server/Client/Media Rendere: Samba Server/Client, FTP Server, Web Server, etc Network Protocols UPnP(DLNA) Server/Client/Media Rendere: Samba Server/Client, FTP Server, Web Server, etc Supported OSD English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) Toroidal Transformer For audio signal management 12vTrigger Out Max 200MA, 12v AC 220v - 240v, 50/60Hz 2vTrigger Out Max 200MA, 12v AC 210v - 120v,	Digital Input	TOSLINK x 1					
$ \begin{array}{ c c c c } (USB DAC) & (support up to PCM 384Khz/32Bit, DSD Native 256, and MQA file) & & & & & & & & & & & & & & & & & & &$		AES/EBU XLR x 1					
Supported Storage Hard Uisk 3.5° SATA, up to 8TB **Bigger capacity of storage will be supported by firmware update when available in the market SD 2.5° SATA, up to 2TB firmware update when available in the market TUNER DA8+/FM Radio Selectable for DA8/DAB+ or FM Radio Image: USB 0.05V1A) x 2 at rear Connectivity USB host USB 0.05V1A) x 1 at from Giga Fast Ethernet(10/100/1000Mbs) Metwork Network Wired Giga Fast Ethernet(10/100/1000Mbs) MOL Connect to external screen(* Shared with HDMI Audio Out) Image: Not 2000 (Stritt) at at from Codec & Format supported MQA, PCM 384khz/32Bit, DSD(DSD64, DSD 28, DSD256), DXD(24Bit/352.8KHz), HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE WAV, FLAC, ALAC, AIFF, AIF, AAC, MAA, MP3, WMA, CAF, Ogg Vorbis, PCM, M3J, PLS, etc Network Protocols UPnP(DLNA) Server/Client/Media Render: samba Server/Client, FTP Server, Web Server, etc Internet Radio Airable Internet Internet Radio Airable Internet Sortify Connect Internet Sortify Connect Supported OSD English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese Internet Sortify Connect In							
SSD2.5" SATA. up to 2.7"Image: Constraint of the second se	Supported Storage	Hard Disk		3.5" SATA, up to 8TB			
$ \begin{array}{c} \label{eq:connectivity} \\ \begin{tabular}{ c c c c } \label{eq:connectivity} \\ \end{tabular} \\ ta$				2.5" SATA, up to 2TB			
$ \begin{array}{c c c c } \mbox{Connectivity} & \begin{titzement{figure}{ \line \end{titzement{figure}{ \li$	TUNER	DAB+/FM Radio		Selectable for DAB/DA	B+ or FM Radio		
Network Wireless(Option) ¥ 802.11b/g/n WiFi USB dongle(Option) HDMI Out Connect to external screen(* Shared with HDMI Audio Out) Codec & Format supported MQA, PCM 384Khz/32Bit, DSD(DSD64, DSD128, DSD256), DXD(24Bit/352.8KHz), HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg Vorbis, PCM, M3U, PLS, etc Network Protocols Supported UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc Internet Internet Radio Airable Services Online Music Services TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect Supported OSD languages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) For audio signal management Isolated Power management Toroidal Transformer For audio signal management English, German, 12V Power Source 220V area AC 220V - 240V, 50/60Hz English decoment English		USB Host		USB2.0(5V/1A) x 1 at front			
Wireless(Option) * 802.11b/g/n WiFi USB dongle(Option) HDMI Out Connect to external screen(* Shared with HDMI Audio Out) MQA, PCM 384Khz/32Bit, DSD(DSD64, DSD128, DSD256), DXD(24Bit/352.8KHz), HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg Vorbis, PCM, M3U, PLS, etc Network Protocols Supported UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc Internet Internet Radio Services Online Music Services TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect Supported OSD English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese Ianguages Toroidal Transformer For added by request For addio signal management 70W internal SMPS For digital CPU management 70W internal SMPS AC 220V - 240V, 50/60Hz Power Source 220V area AC 220V - 240V, 50/60Hz	Connectivity	Network		Wired			
MQA, PCM 384Khz/32Bit, DSD(DSD64, DSD128, DSD256), DXD(24Bit/352.8KHz), HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg Vorbis, PCM, M3U, PLS, etc Network Protocols Supported UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc Internet Services Internet Radio Online Music Services Airable Online Music Services TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect Supported OSD languages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) Isolated Power management Toroidal Transformer 70W internal SMPS For audio signal management 12V Trigger Out Max 200mA, 12V Power Source 220V area AC 220V - 240V, 50/60Hz AC 110V - 120V, 50/60Hz				Wireless(Option)	* 802.11b/g/n WiFi USB dongle(Option)		
Codec & Format supported HD WAV(24Bit/192KH2), HD FLAC(24Bit/192KH2), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg Vorbis, PCM, M3U, PLS, etc Network Protocols Supported UPnP(DLNA) Server/Client/Media Renders and Server/Client, FTP Server, Web Server, etc. Image: Client Service and Server/Client, FTP Server, Web Server, etc. Internet Services Internet Radio Airable Image: Client Music Service and Service and Server/Client, FTP Server, Web Server, Spotify Connect Image: Client Music Service and Server/Client, FTP Server, Web Server, etc. Supported OSD languages Internet Radio Airable Image: Client Music Service and Server/Client, FTP Server, Web Server, Spotify Connect Image: Client Music Service and Server/Client, FTP Server, Web Server, Spotify Connect Image: Client Music Service and Server/Client, FTP Server, Web Server, Spotify Connect Supported OSD languages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) Image: Client And Server							
Supported UPnP(DLNA) Server/Client/Media Renderer, Samba Server/Client, FTP Server, Web Server, etc. Supported Internet Radio Airable Services Online Music Services TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect Supported OSD languages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) For audio signal management Isolated Power management Toroidal Transformer For digital CPU management 70W internal SMPS For digital CPU management Internet Q20V area AC 220V - 240V, 50/60Hz AC 110V - 120V, 50/60Hz Internet Q20V area	Codec & Format supported	HD WAV(24Bit/192KHz	HD WAV(24Bit/192KHz), HD FLAC(24Bit/192KHz), APE/CUE, WAV, FLAC, ALAC, AIFF, AIF, AAC, M4A, MP3, WMA, CAF, Ogg				
Services Online Music Services TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect Supported OSD languages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) For audio signal management Isolated Power management Toroidal Transformer For audio signal management 70W internal SMPS For digital CPU management 12 12V Trigger Out Max 200mA, 12V 220V area AC 220V - 240V, 50/60Hz Power Source 110V area AC 110V - 120V, 50/60Hz 110V area		UPnP(DLNA) Server/Cli	ient/Media Rendere	er, Samba Server/Client, F	TP Server, Web Server, etc		
Supported OSD languages English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese (To be added by request) Isolated Power management Toroidal Transformer 70W internal SMPS For audio signal management 12V Trigger Out Max 200mA, 12V Power Source 220V area AC 220V - 240V, 50/60Hz 110V area AC 110V - 120V, 50/60Hz	Internet	Internet Radio	dio Airable				
Ianguages (To be added by request) For audio signal management for audio signal management Isolated Power management Toroidal Transformer For audio signal management for 70W internal SMPS For digital CPU management for 12V Trigger Out Max 200mA, 12V for Power Source 220V area AC 220V - 240V, 50/60Hz 110V area AC 110V - 120V, 50/60Hz for	Services	Online Music Services TIDAL, TIDAL MQA, Deezer, Qobuz, Napster, Spotify Connect					
Isolated Power management 70W internal SMPS For digital CPU management 12V Trigger Out Max 200mA, 12V E Power Source 220V area AC 220V - 240V, 50/60Hz E 110V area AC 110V - 120V, 50/60Hz E E		English, German, French, Spanish, Italian, Polish, Dutch, Russian, Traditional Chinese, Korean, Japanese					
Isolated Power management 70W internal SMPS For digital CPU management 12V Trigger Out Max 200mA, 12V E Power Source 220V area AC 220V - 240V, 50/60Hz E 110V area AC 110V - 120V, 50/60Hz E E	Is a late of Development			For audio signal management			
12V Trigger Out Max 200mA, 12V Comparison Comparison <t< td=""><td>Isolated Power management</td><td colspan="2"></td><td colspan="2"></td><td></td></t<>	Isolated Power management						
Power Source 220V area AC 220V - 240V, 50/60Hz 110V area AC 110V - 120V, 50/60Hz	12V Trigger Out						
110V area AC 110V - 120V, 50/60Hz		220V area AC 220V - 240V 50/60Hz					
Front 13mm thickness aluminum by CNC cutting	Power Source	110V area AC 110V - 120V, 50/60Hz					
	Mechanical	Material	Front	13mm thickness aluminum by CNC cutting			
Material Knob Aluminum by CNC cutting			Knob	, , ,			
Mechanical Body Metal			Body				
Without foot 441mm(W) x 330mm(D) x 100mm(H)		Dimonsion	Without foot				
Dimension With foot 441mm(W) x 330mm(D) x 111mm(H)		Dimension With foot		441mm(W) x 330mm(
Certificate CE, FCC, EMI, etc	Certificate	CE, FCC, EMI, etc					

* Specification to be changed without notification



www.cocktailaudio.com e-mail: nwkoh@novatron.co.kr



cockteil AUdio X45



A World-Class High-resolution Digital Audio









TIDAL

Features of Hardware and Engineering

- Equipped with high-performance Dual Core ARM Cortex A9 processor running at 1.0Ghz
- Dual ESS ES9018K2M Sabre³² Reference DAC chips built-in separately for right and left channels
- 16 Core Microcontroller with Advanced RISC Architecture for high performance USB DAC function
- USB Audio Class 2.0 Output built-in to connect an external USB DAC
- Isolated power source circuit design for digital and analogue parts
- Toroidal transformer to minimize idle noise
- High speed optical disk drive for quick CD ripping
- Phono Input(Moving Magnet) for turntable
- 7 inch TFT LCD(1024 x 600 pixels) screen for intuitive GUI
- DAB+/FM Tuner built-in
- Giga Fast Ethernet(10/100/1000Mbps) built-in
- Support up to 8TB(Tera Bytes) storage like 3.5"/2.5" hard disk or SSD
- Rugged chassis contruction with 13mm thickness aluminum front and knobs with CNC cutting
- HDMI Out connector for an external screen like TV as its GUI screen or audio signal out

6 Versatile Software functionalities and usage

- Support various file formats like MQA, DSD(64/128/256), DXD(24Bit/352.8Khz), PCM singal up to 32Bit/384Khz including 24Bit/192Khz WAV/FLAC and full range hi-res audio file formats
- Breathtaking sound quality delivered by Dual ES9018K2M Sabre³² Reference DAC
- CD Ripping with professional CD metadata and album cover art provided by Gracenote
- Connect turntable and play LP directly to record it via Phono Input(Moving Magnet)
- Load your vinyl and cassette tape collections, DAB+/FM radio, Internet radio to X45 MusicDB via recording function with hi-res sampling rate 192Khz
- Play hi-res files(like MQA, DSD, etc) in your PC directly through X45 via its far advanced USB DAC function
- High Connectivity
- Versatile network functions
- Major Music Streaming Services(TIDAL, TIDAL MQA, Deezer, Qobuz, Napster) and Internet Radio(Airable) available
- Customized Remote Control App, NOVATRON MusicX for iOS and Android
- Provides customized WebInterface(WebUI) for remote control and MusicDB management by PC
- Support 'Roon Ready', which is the famous Music Player for Music Lovers

What is the cocktail Audio X45

The X45 is a World-Class High-resolution Audio Player and DAC, which is featured by Dual Sabre³² Reference DAC chips built-in, CD Ripper, Music Server, Network Streamer, Music Recorder, and much more









MQA USU Direct Stream Digital Digital eXtream Definition	32Bit/384Khz 84Bit/192Khz
DSD DXD PCM Iflac	HD FLAC (24bit/192KHz)
	HD WAV (24bit/192KHz)
	MP3 APE/CUE
CAF ALAC AIFF AIF	HD MUSIC 32 Bit/ 384 Khz High Resolution Audio



6 High Performance System Resources and custom-designed software

Based on Dual Core ARM Cortex A9 processor running at 1.0GHz, 64Bit/1000MIPS Microcontroller and custom-designed software, the X45 will surely satisfy all music lovers with great performance and versatile features

b Breathtaking Sound Quality created by accumulated circuit design technology and qualified components

Equipped with dual ESS Sabre ³² Reference DAC ES9018K2M built-in separately for right and left channels, 64Bit XMOS chip, TCXO oscillator and high quality Toroidal Transformer including isolated power source circuit design technology and in-house R&D know-how for circuit designing, the X45 will deliver wonderful sound to you

6 Dual Sabre³² Reference DAC separated for right and left channels

You can experience breathtaking sound quality delivered by dual Sabre³² ES9018K2M DAC built-in separately for right and left channels

6 Toroidal Transformer



Isolated power source circuit design for digital and analogue parts minimizes idle noise

• High quality Analog Out terminal

High quality with well-shielded analogue out terminal guarantees lossless signal transmission

6 Balanced & Unbalanced Analogue Out

- Balanced XLR: Dynamic Range: 130dB(Max 4.5Vrms, stereo) THD +N: 0.0004%
- Unbalanced RCA: Dynamic Range: 130dB(Max 2Vrms, stereo) THD +N: 0.0004%

USB Audio Class 2.0 Output

An external USB DAC can be connected

• Phono In(Moving Magnet) for a turntable

Default senstivity is 7.5mVrms and controllable 3.75~15mVrms

♦ DAB+ Tuner and FM Radio Tuner

For high quality digital radio, X45 offers DAB+ tuner also

For quick data transfer purpose, X45 offers two(2) high speed USB3.0 Host Ports at rear side

₲ 6.35mm Headphone Out at the front

X45 offers Headphone Out with senstivity of 100mW+100mW@1Khz, 600ohm, 0.1% THD

• XMOS 64Bit/1000MIPS 16 Core Powerful Microcontroller



X45 USB DAC function can support up to PCM 384Khz/32Bit, DSD Native 256 and MQA

USB Digital - to - Analogue Converter(DAC)

















CD Ripping with Gracenote CD metadata and Album cover art

Load all your CD collection onto the X45 Music Database in FLAC, ALAC, WAV or MP3 file format with professional CD metadata and album cover art from Gracenote



• Music Database function

The X45 has a well-organized Music Database built-in, which offers very nice and convenient functions like SEARCH, display by text or cover art, SORT, various View, etc



• Phono Input(MM) for your turntable

Just connect turntable to the X45 phono in directly to play your precious LP music and record it to the X45 in hi-res digital file. The X45 offers very smart and convenient auto cutting function to edit the recorded file with easy

6 Recording with 192Khz hi-res sampling rate

The X45 offers a recording function for internet radio, DAB+/FM radio, Analogue In, Phono In, AUX In including all digital inputs. You can make your own digital music collection with wonderful sound

6 Auto/Manual Cutting for the recorded files

Smart auto/manual cutting function to edit the recorded files is available at the X45. You can easily edit files and import them into X45 Music Database





6 Versatile Networking and Remote Control with a Customized App

Connect the X35 to your network for streaming music to and from other devices, listen to cloud based music services and control remotely using mobile devices with our customized remote control app, NOVATRON MusicX or WebInterface



Control remotely by mobile devices with customized Remote Control App, NOVATRON MusicX app





• Major Music Streaming Services integrated

You can access tens of thousands of internet radio stations and online music services like TIDAL, Deezer, Napster and Qobuz including Spotify Connect function



Control remotely by PC with WebInterface

Control the X45 remotely by your PC with its nice WebInterface function

Support various network protocols like UPnP Server/Client/Renderer, Samba Server/Client

Stream songs to and from other compatible devices in the same network

6 AirPlay and Spotify Connect

You can play songs from iOS devices and musics from Spotify via X45 wirelessly

Control X45 by Roon

As X45 supports 'Roon Ready', you can control X45 with Roon, which is great music player for music loves



€ 7 inch TFT LCD Screen for Intuitive GUI and HDMI Out for external screen

7 inch big screen will let you control the X45 easily with intuitive GUI, and connect it to your TV for an external screen to view bigger GUI or a slideshow of photos while listening to your music collection



└ DAB+/FM Radio Tuner built-in

Enjoy high quality digital radio via DAB+ Tuner, and record any song or broadcast with high quality sound

• High Connectivity for various external devices

- + 2 x USB3.0 host at rear and 1 x USB2.0 host at front
- USB Audio Class 2.0 Output
- GigaFast Ethernet LAN
- ${\scriptstyle \bullet}\, {\rm HDMI}\, {\rm Out}\, {\rm for}\, {\rm external}\, {\rm screen}\, {\rm or}\, {\rm Audio}\, {\rm out}$
- USB Audio Input for USB DAC function

6 Storage for Music Server

3.5"/2.5" SATA hard disk and Solid State Drive(SSD) is accepted to the X45, which supports up to 8TB capacity. You can install a storage easily thanks to a customized storage drive bay(drawer)

C Rugged and durable casing

The X45 front panel is based on 13mm thickness aluminum with CNC cutting and total metal chassis. The die-cast aluminum feet provide rigidity along with additional resistance from external vibration.

- Digital Out(Coaxial, Toslink, AES/EBU XLR, HDMI)
- Digital In
- Analog Out/Input
- Phono Input
- And more.....



Many Useful functions

Created by custom-designed smart software developed by in-house R&D center





Listing by Text or Cover Art

Sleep function

To display album or song list by Text or Cover Art by pressing TEXT/ART key of RC

Pressing SLEEP key of RC will make X45

powered off automatically after set



Jump to Song Mode

time

On Now Playing screen, pressing CAP/ NUM key of RC will lead you to 'Jump to Song Mode' or 'Seek to Percent Mode' On 'Jump to Song Mode', pressing numeric key is to jump to the song equal to the pressed number







Auto CD Ripping function

When you want to rip many CDs, Auto CD ripping function will be helpful. If you insert CD to the X45, remaining tasks will be done by X45 until the CD is ejected after CD ripping is completed

To merge multialbum or rip it into one folder(Album)

You can rip Multi-album into one folder (album)

Auto Cutting function Using this function, you can edit a file recorded by X45 easily.



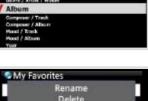








FM - Start It Up Repeat One Repeat All Cut to Wave file Slide Show 04 02





recordina

Edit recorded files

Edit recorded files cutting by unit of track or adding album tag info



TAG Edit

import to DB

Burn My Audio CD

Create Folder

ROON Ready

If you like 'ROON' remote app from Roonlabs, you can use it with the X45

Audio CD Burning

You can burn Audio CD with the X45

Scroll Speed

screen

Control text scroll speed on the

System	
actory Reset	
IDD Sleep	
IDD Format	
ITFS Fix	
Irightness	
larm	
tuto Shutdown	
Scroll Speed	
ist Line Count	

Import & Export

Import/Export music to/from the

X45 Music DB via USB or over a

Make 'My Playlist'

it, My Playlist will disappear

HDD Sleep

Go into sleep mode as set

This is virtual playlist. If you stop playing

your music

Delete Files TAG Edit Import to DB Copy Files Move Files

network Make Playlist

Clear Song New PLS Delete PLS

Album The Element of Free Creating Playlist 'My Playlist'

actory Reset HDD Sleep



Section Repeat

Set specific section to play repeatedly

Schedule when you want the X45

Clock & Display OFF =HDD1 Pressing CLOCK key of RC will make X45 screen show current clock or off

Seek to Percent Mode

On 'Seek to Percent Mode' pressing numeric key is to seek the location of the playing file equal to the pressed number

Display Mode

Alarm

X45 offers Alarm function

You can display Music DB list by unit of Album, Genre, Track, Artist, Composer, Year, Mood, etc

Reservation Recordina

to record iRadio with reservation

Play List





Audio file format conversion

Convert existing audio files into other formats, (e.g. mp3, FLAC, WAV, MP4) for use on other devices -MP3 player, car stereo, etc

Gapless Playback



Delete Rename TAG Edit Artist / Track Artist / Album

HDD Format

Easy solution to format hard disk with Linux file system or NTFS

Edit music tag info

Artist View Genre View rack View torage Backup

🗘 System	
Factory Reset	
HDD Sleep	
HDD Format	
NTFS Fix	
Brightness	
Alarm	
Auto Shutdown	
Scroll Sneed	



₽System	
OSD Language Auto Play	
Resume Play	
Factory Reset	
HDD Sleep	
HDD Format	
NTES Fix	
Brightness	
Alacen	

Music DB backup & Restore

Auto Shutdown

Schedule when you want the X45 powered off

USB Keyboard

Use an USB keyboard to edit song tag info easily

Resume Play

After booting up, resume playing automatically where it was last stopped.