avdi
AUDIO VISUAL DESIGN
& INTEGRATION

Tel: +972-9-9588662
Fax: +972-9-9563070
E-Mail: info@avdi-int.com
Address: 2 Zvulun St.
Hertzelia Israel 46851

מערות בית גוברין

מפרטים טכניים

אוגוסט 2024

מהדורה 1

פרויקט מולטימדיה - מערות בית גוברין **אוגוסט 2024**

מפרט טכני

פריט	מפרט
אזור התכנסות	
מסך תצוגה	Screen Size 98" Resolution 3840 x 2160 (16:9), Contrast Ratio 4000:1 Panel Technology: Slim Direct-LED Backlight or Edge LED BLU Brightness 2000 nits, External Control RS232C, RJ45 Input HDMI, 24/7 Operation, Portrait and Landscape Installation
רמקול	Weather-resistant IP56 rating. 110° x 110° broadband pattern control. Components: • 165 mm (6.5 in) woofer with Kevlar-reinforced cone and 38 mm (1.5 in) voice coil. • 25 mm (1 in) exit compression driver 175 Watt power handling (average continuous pink noise) with high sensitivity provides high SPL capability. Overload protection. 70 Hz – 18 kHz frequency response. 120 Watt 70V/100V multi-tap (built-in transformer) or direct 8Ω low-impedance.
פנל הפעלה	Keypad Buttons Configurable for 2 to 8 single-action pushbuttons Button Events Programmable for Normal, Tap, Double-Tap, and Press and Hold Custom-engraved, backlit button caps Backlight White LED backlight for button engraving; Software-adjustable intensity, auto-dimmable, LED Indicators Feedback White LEDs, one per each of 6 small button positions; Programmable, auto-dimmable, software-adjustable intensity, 10 flashing patterns Bar Graph 6-segment bar graph display utilizing the 6 feedback LEDs Connector NET 4-pin 3.5mm detachable terminal block; Construction Chassis Plastic Mounts in a 1-gang or larger electrical box or mud ring
ארון ריכוז ציודים + אביזרים	Standard Width 19”, Height 16U Cable Management, Front metal mesh door 4 extraction vents on top, Power sockets
בקר ראשי	Ethernet 100/1000 Mbps, auto switching, auto negotiating, auto discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory service authentication, HTTPS web server, SMTP email client USB Supports USB mass storage class devices via the rear panel USB 2.0 host port, supports computer console via the front panel USB 2.0 device port RS-232/422/485 for 2-way device control and monitoring, all ports support RS-232 up to 115.2k baud with software handshaking, one port also supports RS-422 or RS-485 and hardware handshaking IR Supports 1-way device control via infrared up to 1.2 MHz BACnet™ network/IP Supports up to 2000 BACnet objects Memory SDRAM 2 GB Flash 8 GB Memory Card Supports SD and SDHC cards up to 32 GB (4 GB included) External Storage Supports USB mass storage devices up to 1 TB Connectors and Card Slots RELAY OUTPUT 1 – 8 - 8-pin 3.5 mm detachable terminal blocks; comprises normally open, isolated relays; Rated 1 Amp, 30 V AC/DC; I/O 1 – 8 - 9-pin 3.5 mm detachable terminal block; Comprises digital input/output or analog input ports (referenced to GND); Digital Input: Rated for 0–24 VDC, input impedance 20k Ω, logic threshold >3.125 V low/0 and <1.875 V high/1; Digital Output: 250 mA sink from maximum 24 VDC, catch diodes for use with real world loads; Analog Input: Rated for 0–10 VDC, protected to 24 VDC maximum, input impedance 21k Ω with pull-up resistor disabled; Programmable 5 V, 2k Ω pull-up resistor per pin IR - SERIAL OUTPUT 1 – 8 - 8-pin 3.5 mm detachable terminal blocks; Comprises IR output ports; IR output up to 1.2 MHz; 1-way Serial TTL/RS-232 (0–5 V) up to 115.2k baud COM 1 5-pin 3.5 mm detachable terminal block; Bidirectional RS-232/422/485 port; Up to 115.2k baud; hardware and software handshaking support COM 2 – 3 - 3-pin 3.5 mm detachable terminal blocks; Bidirectional RS-232 ports; Up to

נגן וידאו	Solid State Digital Video Player 4K@60p video decoding Video Codecs for 4K content: H.265/H.264 Video Containers for 4K H.265/H.264 content: .ts, .mov, .mp4 Video Codecs for Full HD: H.265, H.264 (MPEG-4, Part 10), MPEG-2, MPEG-1 Video Containers for Full HD: .ts, .mpg, .vob, .mov, .mp4, .m2ts Images: BMP, JPEG, PNG Audio: MP2, MP3, AAC, and WAV External micro SD Slot (SDHC and SDXC); SDHC storage up to 32GB SDXC storage up to 2TB GPIO port with 8 bi-directional GPIOs 3.5mm RS-232 Serial Port 3.5mm audio out (analog -or- SPDIF digital, no simultaneous) HDMI 2.0a Out, Ethernet (Gigabit)
מרחיקי אות	Receiver INPUT HDBT: On an RJ–45 connector OUTPUT 1 HDMI: On a female HDMI connector Transmitter INPUT 1 HDMI: On a female HDMI connector, OUTPUT 1 HDBT: On an RJ–45 connector PORTS 1 RS-232: On a 3–pin terminal block connector for serial link extension 1 IR: On a 3.5mm mini jack connector Standard Compression: Up to 100m (330ft) at 4K@60Hz (4:4:4), 4K@60Hz (4:2:0) or 4K@30Hz (4:4:4) Up to 180m (590ft) at full HD (1080p @60Hz 24bpp) High Compression: Up to 100m (330ft) at 4K@60Hz (4:4:4), or 4K@60Hz (4:2:0) Up to 180m (590ft) at 4K@30Hz (4:4:4) Up to 200m (650ft) at full HD (1080p @60Hz 24bpp) No Compression: Up to 100m (330ft) at 4K@60Hz (4:2:0), Up to 180m (590ft) at full HD (1080p @60Hz 24bpp) Standards Compliance: HDBaseT 1.0 Max Data Rate: Up to 18Gbps (6Gbps per graphic channel) Compliance: HDCP 2.2, HDR 10 HDMI Support: Deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS–HD, 2K, 4K, and 3D as specified in HDMI 2.0
מגבר	Channels - 4 Output Power: Dual Mode – All Channels Driven 600W @ 8 Ohms Frequency Response (8Ω, 20Hz - 20 kHz) +/-0.5dB Total Harmonic Distortion 0.35%, Damping Factor (20Hz to 100Hz) >1000 Crosstalk (below rated power, 20Hz to 1 kHz) >80dB Input Impedance (Nominally balanced, nominally unbalanced) 20 kΩ balanced, 10 kΩ unbalanced 70V/100V Transformer Outputs
מתג רשת	24x 1G ports, 4 SFP or SFP+ uplinks Up to 360W PoE CPU ARM v7 800 MHz DRAM 512 MB Flash memory 256 MB Switching bandwidth 1G: 104 Gbps

פרויקט מולטימדיה - מערות בית גוברין **אוגוסט 2024**

מפרט טכני

פריט	מפרט
מסלול אודיו	
רמקול דוקרן	Coaxial 6.5" Full-Range Landscape Loudspeaker Transducers: 165 mm (6.5”) woofer with polypropylene cone and 25 mm (1”) voice coil on aluminum voice coil former; 25 mm (1.0”) titanium dome tweeter with neodymium magnet assembly and Kapton voice coil former Frequency range: 65 Hz–20 kHz Power handling (at 8Ω setting): 50W continuous pink noise, 100W continuous program Multi-tap 30W transformer is switchable for 8Ω direct operation or use in 70V/100V distributed systems IP66 rated against water and dust ingress
רמקול שקוע באדמה	Two-Way 5.25 inch (135mm) Coaxial Mushroom Landscape Speaker Components: • 5¼” highly weather-resistant driver • ¾” soft-dome highly weather-resistant tweeter 80W Pink Noise Power Handling (160W program) in direct 8Ω setting, plus built-in 30W 70V/100V multi-tap transformer Tough polyethylene highly weather resistant enclosure
רמקול סלע	Coaxial 6.5" Full-Range Landscape Loudspeaker Transducers: 165 mm (6.5”) woofer with polypropylene cone and 25 mm (1”) voice coil on aluminum voice coil former; 25 mm (1.0”) titanium dome tweeter with neodymium magnet assembly and Kapton voice coil former Frequency range: 65 Hz–20 kHz Power handling (at 8Ω setting): 50W continuous pink noise, 100W continuous program Multi-tap 30W transformer is switchable for 8Ω direct operation or use in 70V/100V distributed systems IP66 rated against water and dust ingress
מגבר רב ערוצי 4X600	Channels - 4 Output Power: Dual Mode – All Channels Driven 600W @ 8 Ohms Frequency Response (8Ω, 20Hz - 20 kHz) +/-0.5dB Total Harmonic Distortion 0.35%, Damping Factor (20Hz to 100Hz) >1000 Crosstalk (below rated power, 20Hz to 1 kHz) >80dB Input Impedance (Nominally balanced, nominally unbalanced) 20 kΩ balanced, 10 kΩ unbalanced 70V/100V Transformer Outputs
מעבד קול DSP	Open Architecture Programmable Audio DSP Processor 12 Analog Inputs (with 48v Phantom Power per Channel) Configurable Signal Processing 48 Channel, Low Latency, Fault Tolerant Digital Audio Bus Clear Front Panel LED Indication Bi-Directional Locate Functionality 12 Control Inputs and 6 Logic Outputs for GPIO Integration Interface Kit for Third Party Control System Integration (Documentation) 8 Analog Audio Outputs Standard Terminal Block Connectors for Analog Audio Connections DIP Switches for Channel Range Selection 256 Channel, Low Latency, Fault Tolerant Digital Audio Bus Clear Front Panel LED Indication 12VDC External Power included Terminal Block Connectors for Power Connection Half Rack Width, Desk Mount or Wall Mount Chassis
עמדת מיקרופון	16" Small Diameter Flexible Gooseneck Cast-Alloy Base with Rubber Isolators Wide Range Phantom Power 12V-52V DC Operation Active/On Blue Illumination Ring on Base Latching Push-to-Talk Switch Microphone TypeCondenser Polar PatternCardioid Frequency Response80Hz - 18kHz Impedance8Ω Sensitivity-35dB (1V/Pa) Phantom Power12V-52V DC, Current Draw 5mA Typical Output Connector3-Pin XLR - Male Diameter 2.0" Signal To Noise Ratio 68dB, 1kHz @ 1 Pa
מחשב נגינה	Intel Core i7-8809G 3.1GHz-4.2GHz Quad-Core 8MB Cache Kingston 16GB DDR4 2666MHz Kingston A2000 NVMe PCIe 500GB Radeon RX VEGA N GH Integrated 2 X HDMI Outputs 6 X USB 3.0 Windows 11 PRO

Standard Width 19”, Height 16U Cable Management, Front metal mesh door 4 extraction vents on top, Power sockets	ארון מגברים

פרויקט מולטימדיה - מערות בית גוברין **אוגוסט 2024**

מפרט טכני

פריט	מפרט
מערות	
עמדת מארז למקרן	See Specifications in Plans
מרחיקי אות	Receiver INPUT HDBT: On an RJ–45 connector OUTPUT 1 HDMI: On a female HDMI connector Transmitter INPUT 1 HDMI: On a female HDMI connector, OUTPUT 1 HDBT: On an RJ–45 connector PORTS 1 RS-232: On a 3–pin terminal block connector for serial link extension 1 IR: On a 3.5mm mini jack connector Standard Compression: Up to 100m (330ft) at 4K@60Hz (4:4:4), 4K@60Hz (4:2:0) or 4K@30Hz (4:4:4) Up to 180m (590ft) at full HD (1080p @60Hz 24bpp) High Compression: Up to 100m (330ft) at 4K@60Hz (4:4:4), or 4K@60Hz (4:2:0) Up to 180m (590ft) at 4K@30Hz (4:4:4) Up to 200m (650ft) at full HD (1080p @60Hz 24bpp) No Compression: Up to 100m (330ft) at 4K@60Hz (4:2:0), Up to 180m (590ft) at full HD (1080p @60Hz 24bpp) Standards Compliance: HDBaseT 1.0 Max Data Rate: Up to 18Gbps (6Gbps per graphic channel) Compliance: HDCP 2.2, HDR 10 HDMI Support: Deep color, x.v.Color™, lip sync, HDMI uncompressed audio channels, Dolby TrueHD, DTS–HD, 2K, 4K, and 3D as specified in HDMI 2.0
מקרן	Projection System: 3LCD, 3-chip technology Native Resolution: WUXGA 1920 x 1200 Pixel Number in Device: 2,304,000 pixels (1920 x 1200) x 3 chips Signal Input: Maximum Display Resolution: 4096 x 2160 Display Resolution: 1920 x 1200 pixels Color Brightness - Color Light Output: 8,000 lumens White Brightness - White Light Output: 8,000 lumens Light Source Laser Phosphor 20,000 hours Interchangable Lens to be specified after site survey
לוח ניתוב HDMI	Custom Rack mount HDMI Connection Panel (See Plans)
מחשב נגינה	Built-in Media Server license Hardware EDID emulation/management Outputs –4x4K playback, DisplayPort Max output resolution per channel Up to 4096 x 2160 Industrial-grade components, optimized for Video Playback Media storage –1TB (1GB/second) for fast playback of large files Network 1 GB Ethernet for high-speed transfer of content Audio output –3.5 mm stereo UNCOMPRESSED PLAYBACK, 3D MAPPING / FACADE PROJECTION Camera-based projection auto-alignment External control: TCP/IP, MIDI, Art-Net (DMX-512) and timecode
מחשב הפקה	Intel Core i7-8809G 3.1GHz-4.2GHz Quad-Core 8MB Cache Kingston 16GB DDR4 2666MHz Kingston A2000 NVMe PCIe 500GB Radeon RX VEGA N GH Integrated 2 X HDMI Outputs 6 X USB 3.0 Windows 11 PRO
תוכנה למחשב נגינה	Built-in Media Server license
נגן וידאו	Solid State Digital Video Player 4K@60p video decoding Video Codecs for 4K content: H.265/H.264 Video Containers for 4K H.265/H.264 content: .ts, .mov, .mp4 Video Codecs for Full HD: H.265, H.264 (MPEG-4, Part 10), MPEG-2, MPEG-1 Video Containers for Full HD: .ts, .mpg, .vob, .mov, .mp4, .m2ts Images: BMP, JPEG, PNG Audio: MP2, MP3, AAC, and WAV External micro SD Slot (SDHC and SDXC); SDHC storage up to 32GB SDXC storage up to 2TB GPIO port with 8 bi-directional GPIOs 3.5mm RS-232 Serial Port 3.5mm audio out (analog -or- SPDIF digital, no simultaneous) HDMI 2.0a Out, Ethernet (Gigabit)
מפצל HDMI	1:8 HDMI® Distribution Amplifier w/4K60 4:4:4 & HDR Support Input Signal TypeHDMI w/HDR10, Deep Color, 3D, & 4K60 4:4:4 support[1] (DVI & Dual-Mode DisplayPort compatible[2]) Output Signal TypeHDMI w/HDR10, Deep Color, 3D, & 4K60 4:4:4 support[1] (DVI compatible[2]) Copy ProtectionSelectable for HDCP 2.2, HDCP 1.4, or HDCP disabled

All-Weather 2-Way Coaxial Loudspeaker with 12" Weather-resistant IP56 rating 90° x 90° broadband pattern control Components: • 300 mm (12 in) woofer with Kevlar-reinforced cone and 75 mm (3 in) voice coil. • 25 mm (1 in) exit compression driver 400 Watt power handling (average continuous pink noise) with high sensitivity provides high SPL capability. Overload protection 55 Hz – 20 kHz frequency response. 200 Watt 70V/100V multi-tap (built-in transformer) direct 8Ω low-impedance.	רמקול
Custom Pole Mount	מעמד לרמקול
Channels - 4 Output Power: Dual Mode – All Channels Driven 600W @ 8 Ohms Frequency Response (8Ω, 20Hz - 20 kHz) +/-0.5dB Total Harmonic Distortion 0.35%, Damping Factor (20Hz to 100Hz) >1000 Crosstalk (below rated power, 20Hz to 1 kHz) >80dB Input Impedance (Nominally balanced, nominally unbalanced) 20 kΩ balanced, 10 kΩ unbalanced 70V/100V Transformer Outputs	מגבר רב ערוצי
Open Architecture Programmable Audio DSP Processor 12 Analog Inputs (with 48v Phantom Power per Channel) Configurable Signal Processing 48 Channel, Low Latency, Fault Tolerant Digital Audio Bus Clear Front Panel LED Indication Bi-Directional Locate Functionality 12 Control Inputs and 6 Logic Outputs for GPIO Integration Interface Kit for Third Party Control System Integration (Documentation) 8 Analog Audio Outputs Standard Terminal Block Connectors for Analog Audio Connections DIP Switches for Channel Range Selection 256 Channel, Low Latency, Fault Tolerant Digital Audio Bus Clear Front Panel LED Indication 12VDC External Power included Terminal Block Connectors for Power Connection Half Rack Width, Desk Mount or	מעבד קול DSP
Custom Rack Mount XLR Panel	פנל ניתוב אודיו
Solid State Digital AudioPlayer Audio Format 16 bit WAV or up to 320kb/s MP3 Sampling rate 32 kHz, 44.1 kHz, or 48 kHz Bandwidth 20Hz to 20 KHz, Distortion less than 0, 01% Dynamic range 92 dB, Output Level Line level External micro SD Slot (SDHC and SDXC); SDHC storage up to 32GB SDXC storage up to 2TB GPIO port with 8 bi-directional GPIOs 3.5mm RS-232 Serial Port 3.5mm audio out (analog -or- SPDIF digital, no simultaneous) Ethernet (Gigabit) Control	נגן אודיו

בקר ראשי	Ethernet 100/1000 Mbps, auto switching, auto negotiating, auto discovery, full/half duplex, industry-standard TCP/IP stack, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), FIPS 140-2 compliant encryption, IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory service authentication, HTTPS web server, SMTP email client USB Supports USB mass storage class devices via the rear panel USB 2.0 host port, supports computer console via the front panel USB 2.0 device port RS-232/422/485 for 2-way device control and monitoring, all ports support RS-232 up to 115.2k baud with software handshaking, one port also supports RS-422 or RS-485 and hardware handshaking IR Supports 1-way device control via infrared up to 1.2 MHz BACnet™ network/IP Supports up to 2000 BACnet objects Memory SDRAM 2 GB Flash 8 GB Memory Card Supports SD and SDHC cards up to 32 GB (4 GB included) External Storage Supports USB mass storage devices up to 1 TB Connectors and Card Slots RELAY OUTPUT 1 – 8 - 8-pin 3.5 mm detachable terminal blocks; comprises normally open, isolated relays; Rated 1 Amp, 30 V AC/DC; I/O 1 – 8 - 9-pin 3.5 mm detachable terminal block; Comprises digital input/output or analog input ports (referenced to GND); Digital Input: Rated for 0–24 VDC, input impedance 20k Ω, logic threshold >3.125 V low/0 and <1.875 V high/1; Digital Output: 250 mA sink from maximum 24 VDC, catch diodes for use with real world loads; Analog Input: Rated for 0–10 VDC, protected to 24 VDC maximum, input impedance 21k Ω with pull-up resistor disabled; Programmable 5 V, 2k Ω pull-up resistor per pin IR - SERIAL OUTPUT 1 – 8 - 8-pin 3.5 mm detachable terminal blocks; Comprises IR output ports; IR output up to 1.2 MHz; 1-way Serial TTL/RS-232 (0–5 V) up to 115.2k baud COM 1 5-pin 3.5 mm detachable terminal block; Bidirectional RS-232/422/485 port; Up to 115.2k baud; hardware and software handshaking support
מסך מגע ראשי	Touch Screen Display Type TFT active matrix color LCD Size 7 in. (178 mm) diagonal Aspect Ratio 17:10 WSVGA Resolution 1024 x 600 pixels Brightness350 nits (cd/m²) Contrast 1100:1 Color Depth 24 bit, 16.7M colors Illumination Edge lit LED with auto brightness control Viewing Angle ±80° horizontal, ±80° vertical Touch Screen Projected capacitive, 5-point multitouch capable Memory RAM 2 GB DDR3L Storage Firmware/Application: 4 GB Class 10 micro SD card; System: 4 GB eMMC Maximum Project Size 600 MB Communications Ethernet 100 Mbps, auto switching, auto negotiating, auto discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP, SSL, TLS, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1X, SNMP, IPv4 or IPv6, Active Directory® service authentication, HTTPS web browser setup Streaming Decoder Video Formats H.264 (MPEG-4 part 10 AVC), MJPEG Audio Formats AAC stereo Bitrates Up to 25 Mbps Protocol RTSP Connectors LAN PoE 8-pin RJ45 connector, female, with 2 LED indicators; 100Base-TX Ethernet port; PoE+ PD port; Power PoE (Power over Ethernet) IEEE 802.3at Type 2 compliant PoE+ PD (Powered Device);
פנל שליטה נייד	
ארון חשמל ותקשורת	
מתג אזורי תעשייתי	48x 1G ports, 4 SFP or SFP+ uplinks Up to 740W PoE CPU ARM v7 800 MHz DRAM 512 MB Flash memory 256 MB Switching bandwidth 1G: 104 Gbps
תשתית עבור הכבילה על ידי קבלן משנה	
חיווט חשמל על ידי קבלן משנה	
מזגן	
עבודות יציקה ותשתית מהריכוז הראשי	
לוח חשמל	
ארון תקשורת	Standard Width 19”, Height 16U Cable Management, Front metal mesh door 4 extraction vents on top, Power sockets
ארון מולטימדיה	Standard Width 19”, Height 44U Casters with locking feet, 15 Shelves per Rack Cable Management, Front metal mesh door 4 extraction vents on top, Power sockets

אל פסק	Rating 3KVA Rack mount case True double-conversion Spike protection- 600 joules Microprocessor control optimizes reliability Input power factor correction Output power factor 0.9 Wide input voltage range 120-300VAC at 230VAC Bypass Converter mode available ECO mode for energy saving Generator compatible Adjustable charging current via LCD or software (1A~6A long run model) Comprehensive display allows easy monitoring and access of UPS status
תשתית תקשורת לריכוז הראשי (סיב אופטי)	