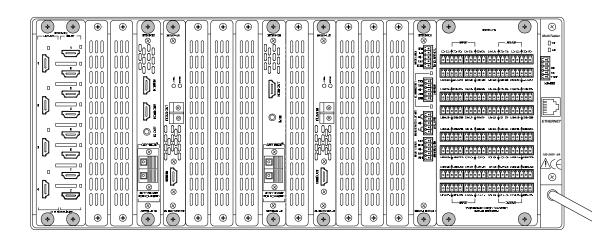
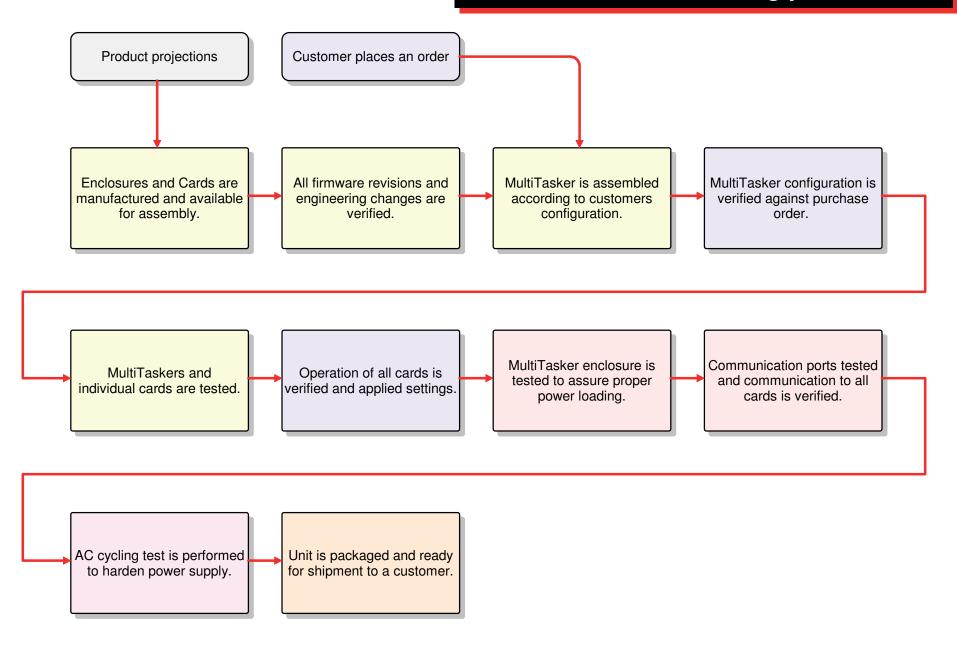




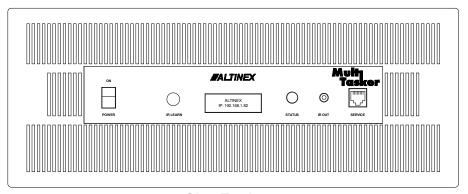
MultiTasker Design Guide



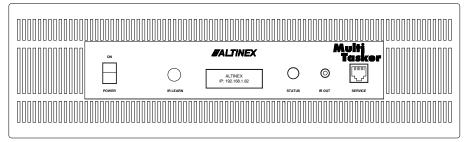
MultiTasker manufacturing process



FRONT PANEL VIEW



20 Slot Enclosure



12 Slot Enclosure

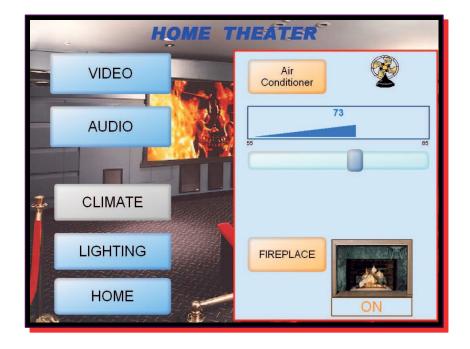
All enclosures are shipped fully tested.

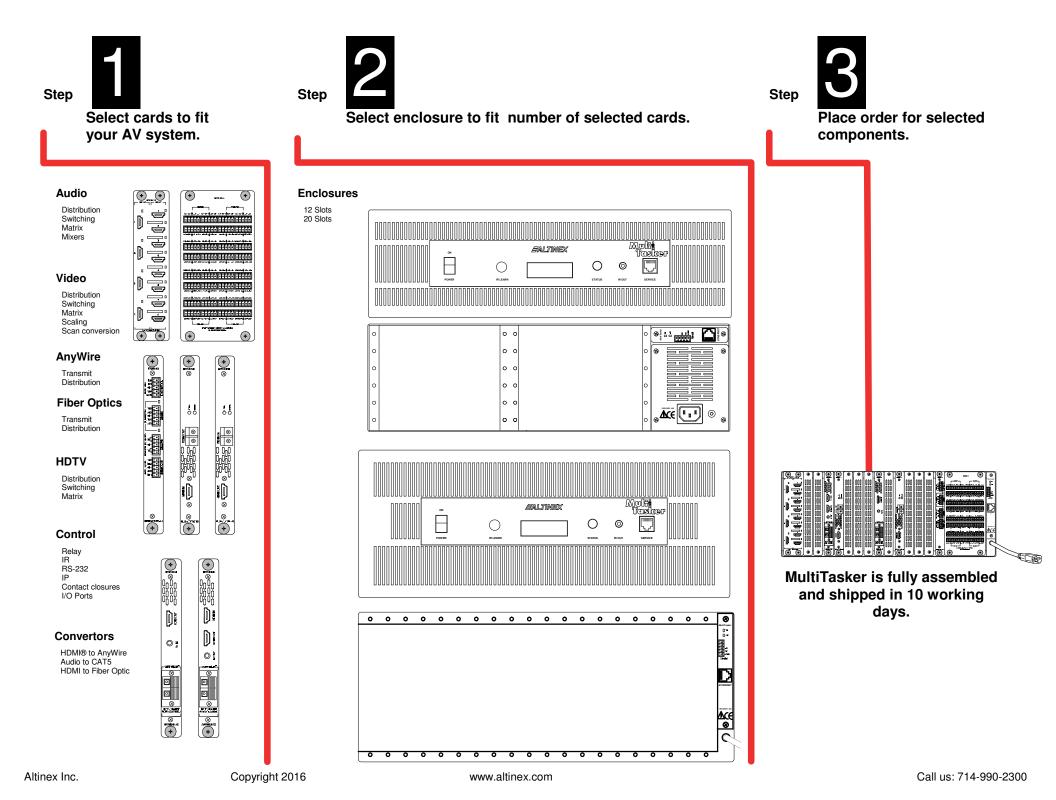
- * Ready to use out of the box
- * 100% tested on a system level
- * Front Panel On/Off switcher
- * Front Panel IR Learner
- * Front Panel Network Connect
- * Front Panel IR Blaster

PC USER INTERFACE

Graphical User Interface (GUI) is can be designed for all MultiTasker configurations. GUI interface is designed to operate on a PC through TCP/IP ports. User defines functions we do the rest. The completed source code is provided to customer and compiled software is available as a stand alone application. User interface is designed using AVSnap software.

- * Part #: AVSNAP
- * Up to 5 pages for one low price
- * Custom screens, layout and buttons
- * Source code provided for easy modifications
- * Simple field update and modifications
- * Customer logos and artwork
- * Operates as a stand alone program (WIN 7, WIN 8, WIN 8.1, WIN 10)





PRODUCTS LISTING

ENCLOSURES

MT302-201 - 20 Slot Multitasker

MT302-121 - 12 Slot Multitasker

SMALL MATRIX SWITCHERS

MT305-804 - 8 X 4 HDMI Matrix Switcher

MT305-402 - 4-In 2-Out HDMI Matrix Switcher*

MT305-404 - 4-In 4-Out HDMI Matrix Switcher*

HDMI DAs

MT303-103 - 1-In, 3-Out HDMI DA 2K/4K*

MT303-106 - 1-In, 6-Out HDMI DA 2K/4K*

VIDEO PROCESSORS

MT306-101 - Dual Media Player Processor*

MT306-501 - Video Scaler Processing card*

MT316-102 - IP Camera To HDMI Output*

CONTROL

MT312-104 - CONTROL CARD

AUDIO MATRIX SWITCHERS

MT310-104 - 16 X 16 Stereo Audio Matrix Switcher, 4 Slot (TB IN/OUT); BAL. IN/OUT; Volume Control

AUDIO DAs

MT306-301 Card*

- HDMI /AUDIO Breakout

HDMI EXTENDERS

MT315-101

- HDMI over ANYWIRE, TX Card

MT315-102

- HDMI over ANYWIRE, RX Card

MT317-101

- HDMI over Fiber Optic, TX Card

MT317-102

- HDMI over Fiber Optic, RX Card

MT316-101

- HDMI TO IP Stream*

- Dual HDMI to HDBaseT

MT318-101

Transmitter*

MT318-102

- Dual HDBaseT to HDMI Receiver *

POWER DISTRIBUTION

MT322-105 - 1-In, 3-Out Power Distribution with

Current Sensor, 1 IEC IN, 3 NEMA AC OUT*

- 1-In, 3-Out Power Distribution with

MT322-107 Current Sensor, 1 IEC IN, 3 AC OUT,

International Version (250VAC)*

HDMI SWITCHERS

MT304-103 - 3-In 1-Out HDMI Switcher 2K/4K*

MT304-106 - 6-In 1-Out HDMI Switcher 2K/4K*

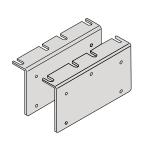
CONVERTER

MT306-201 Converter* - HDMI to VGA/VGA to HDMI

Call us: 714-990-2300 Altinex Inc. Copyright 2016 www.altinex.com

^{*} Products coming soon

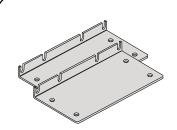
ACCESORIES



MT399-102

12 slot enclosure rack mount ears kit (3U)

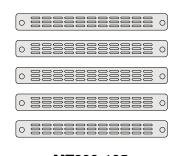
Included with enclosure



MT399-101

20 slot enclosure rack mount ears kit (4U)

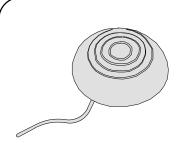
Included with enclosure



MT399-105

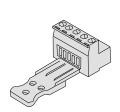
Empty card slot cover (5pc)

Included with enclosure



RC5205CV

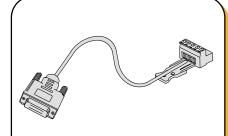
Judge override button for system shutdown 50ft cable



AC101-302

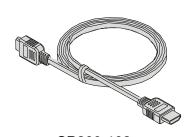
5 pin terminal block audio / control (1pc)

Included with enclosure



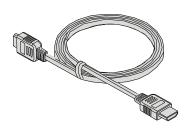
RC5211MT

6ft, 9 pin M to 5 terminal block RS-232 cable (20 slot)



CB300-102

10FT Active HDMI Cable



CB470-003

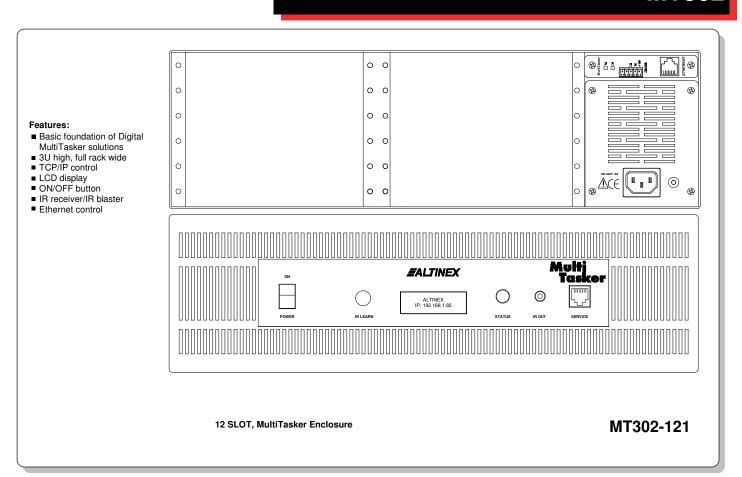
3.3 FT, HDMI HIGH SPEED WITH INTERNET, M/M, CABLE

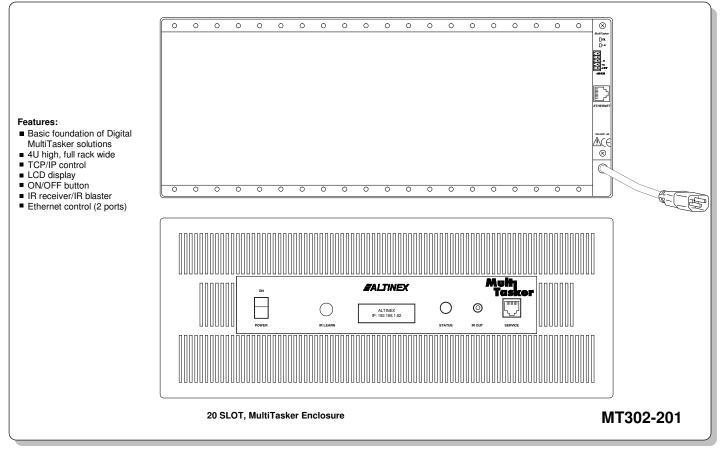


CB470-006

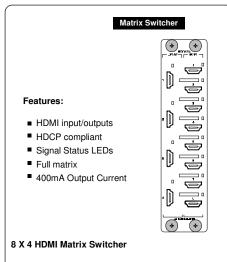
6.5 FT, HDMI HIGH SPEED WITH INTERNET, M/M, CABLE

ENCLOSURES

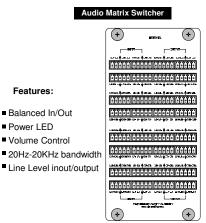




CARDS



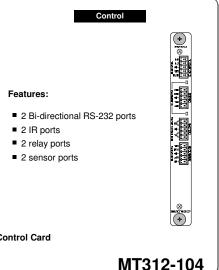
MT305-804

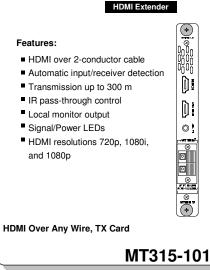


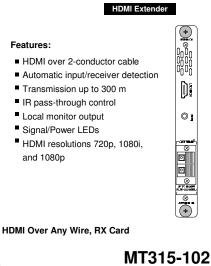
Slot; BAL. IN/OUT; Volume Control

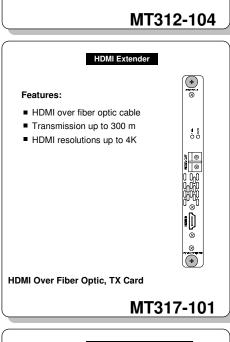
16 X 16 Stereo Audio Matrix Switcher (TB IN/OUT) 4 **Control Card**

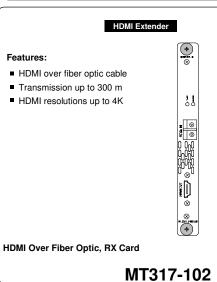
MT310-104

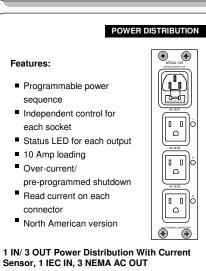


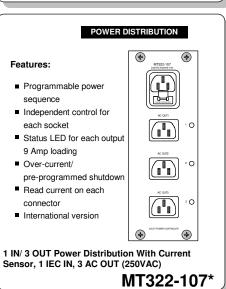








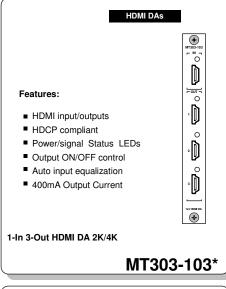


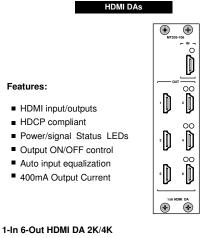


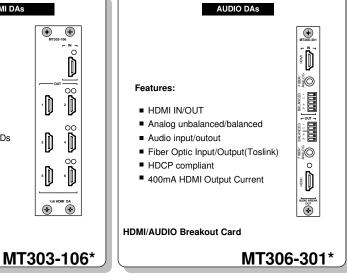
*products coming soon

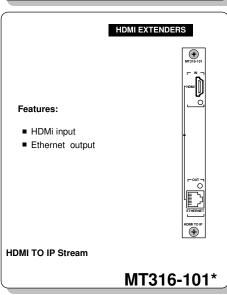
MT322-105*

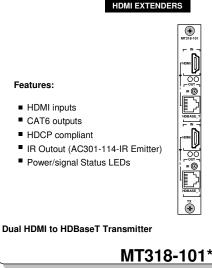
CARDS

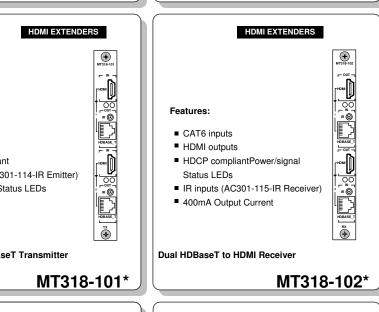


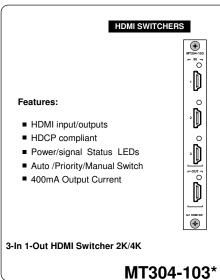


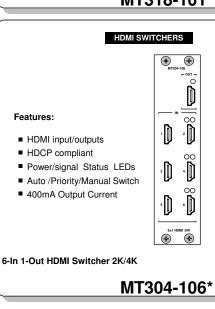








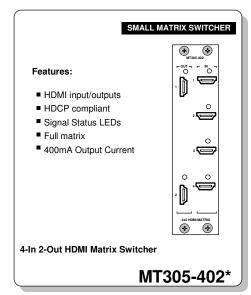


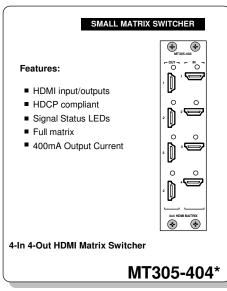


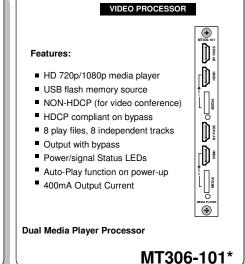
CONVERTER Features: ■ HDMI/VGA inputs ■ VGA/HDMI outputs ■ Resolution up to 2K/4K ■ Power/signal Status LEDs ■ 400mA HDMI Output Current ■ HDCP compliant HDMI to VGA/VGA to HDMI Converter MT306-201*

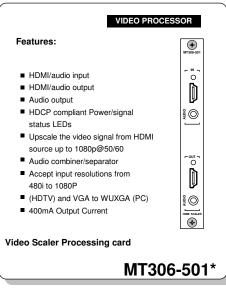
*products coming soon

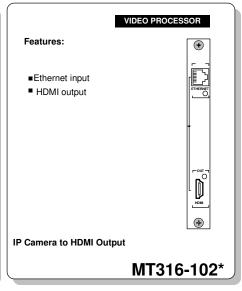
CARDS











*products coming soon

PROGRAMING NOTES



ETHERNET SETTINGS

Default TCP/IP- 192.168.10.85 port 23

Communication with the MultiTasker is TCP/IP with limited support of UDP options.

The MultiTasker defaults to DHCP mode and obtains an IP address automatically from the network server. It can also be configured to use a fixed IP address.

UDP - The MultiTasker listens and broadcasts on UDP port 30305.

The UDP option is used for network discovery. Additionally, some commands are supported using the UDP option but without feedback.

NETWORK DISCOVERY

Find Enclosures - In order to find out the address assigned to enclosures on a network, broadcast the UDP discover command to the network on port 30305. The discover command is as follows:

?Altinex

Send "?Altinex" in a single packet. Do not type the characters individually or the command is ignored.

Any MultiTaskers on the network respond with feedback similar to the following single line:

[MT302 201,00:1E:C0:C9:6A:24,00023,192:168:1:121,255:255:255;0:192:168:1:254]

The data inside the brackets includes the enclosure alias, MAC address, and TCP/IP port, plus the IP address, subnet mask, and gateway address assigned to the by the network.

Use this information to establish a TCP/IP connection to the MultiTasker for control and/or configuration.

LAN CONNECTION

A computer or control system is used to control the cards in the MultiTasker. Connect to the RJ45 on the front or rear of the MultiTasker.

WEBSERVER

The MultiTasker includes an internal webserver. Use the webserver to find out information about the MultiTasker and the cards installed in the system. You can view the card models, see their functional description, and view their slot IDs

MultiTasker system statistics are also available. View system on time, card and system power consumption, internal temperatures, etc.

POWER UP DEFAULTS

At power up or soft reset [RES], all cards are initialized to their saved configuration states. Saved configurations include input to output connections, on/off settings, volume levels, relay positions, etc. In the event the cards have not been previously configured, they initialize to their factory defaults.

FRONT PANEL DISPLAY

The front panel displays the current IP address of the enclosure. Press the button to cycle through all the cards installed in the enclosure. This provides the card ID and model of each card to make identification possible without establishing a network connection.

PROGRAMING NOTES



PROTOCOL

The protocol for the MultiTasker uses a simple keyboard character format.

• Brackets Square brackets "[]" are part of the command for the enclosure or plug-in card.

All commands begin with an open "[" bracket and end with a close "]" bracket. Do not

send carriage returns or line feeds; these characters are invalid.

Characters
Only keyboard characters are accepted, and all letters are uppercase only.

Cxx
This term refers to a MultiTasker card where the ID number is 2-digits; "xx"; typically the

slot number of the card; C01 through C20.

Feedback
Feedback refers to data that is received from the MultiTasker or any of the cards

installed in the enclosure. All TCP/IP commands provide feedback either in the form of

the data requested or as command acknowledgement.

Control Command Feedback: Commands that are used to control the switcher provide

the following feedback responses:

[] Enclosure Command executed

[ÉR] Enclosure Command error (bad format, out of range, etc.)

[Cxx] Card Command executed

[ERCxx] Card Command error (bad format, out of range, etc.)

CONTROL

Controlling MultiTasker

When controlling MultiTasker do not send carriage returns or line at the end of commands.

COMMAND LIST



Enclosure Control		
[VER]	Firmware Version	
[RES]	Reset enclosure	
[MOD101-yyy]	Set the model number	
[?]	Display cards in system	
[?C]	Display card info and status	
[STAx]	Auto feedback ON/OFF	
[BEEP]	Play default beep	
[PING]	Returns []	
[TEST]	Test Internal Memory	

Card ID Control		
[RSI]	Reset Card ID	
[SIDxx]	Set ID of All Cards	
[SIDnCxx]	Set single Card ID	
[SID+]	Set Card ID offset	
[RSNCxx]	Display Card No.	

Card Control	
[?]	System Data
[?C]	Card Data
[+]/[-]	Inc./Dec.
[AUTO=mCxx]	Auto Switching
[Cxx]	Show status
[SAVECxx]	Show/save status
[CLRCxx]	Reset card
[ImOxCxx]	In to Out
[ImO*Cxx]	In to All Out
[MUTEx1Cxx]	Mute On/Off
[OFFCxx]	All Outputs OFF
[OFFmCxx]	Single Output OFF
[ONCxx]	All Outputs ON
[ONmCxx]	Single Output ON
[SDImmCxx]	Input Signal Detect
[SDOmmCxx]	Output Signal Detect
[SELBCxx]	Adjust Bass
[SELTCxx]	Adjust Treble
[SOFFCxx]	Read OFF sequence/delay
[SOFFnnTxCxx]	Set OFF sequence/delay
[SONCxx]	Read ON sequence/delay
[SONnnTxCxx]	Set ON sequence/delay
[TESTCxx]	Test Memory ICs
[VERCxx]	Model and Version
[VLIxAyCxx]	Set Input Volume
[VLOAyCxx]	Set Output Volume
[VLOxAyCxx]	Set Output Volume
[VLBAnCxx]	Set Bass Level
[VLTAnCxx]	Set Treble Level

NOTES



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