



InnoMedia

# EMTA 6528-12

*Quick Install Guide*



[www.innomedia.com](http://www.innomedia.com)

## **Introduction**

The InnoMedia EMTA 6528-12 Multimedia Terminal Adapter is a device that provides standard telephony service and broadband Internet access over a DOCSIS™ cable network. Designed for ease of installation and use, EMTA 6528-12 will allow you to place and receive regular telephone and fax calls.

## **Package Contents**

The InnoMedia EMTA 6528-12 comes with the following items:

- 1 EMTA 6528-12
- 2 Mounting flanges with screws (for flanges) in a plastic bag
- 1 Ethernet cable
- 1 Quick Install Guide
- 1 AC power cable
- 2 Screws for RJ-21 connector

# Installation

## Step 1: Attach Mounting Flanges

Attach the mounting flanges at the front for the rack installation; or attach the mounting flanges in the middle for the wall installation.

## Step 2: Attach EMTA to Rack or Wall

### - Rack Mount

Install 4 rack-mount screws (not provided) into the mounting holes of the rack and tighten firmly.

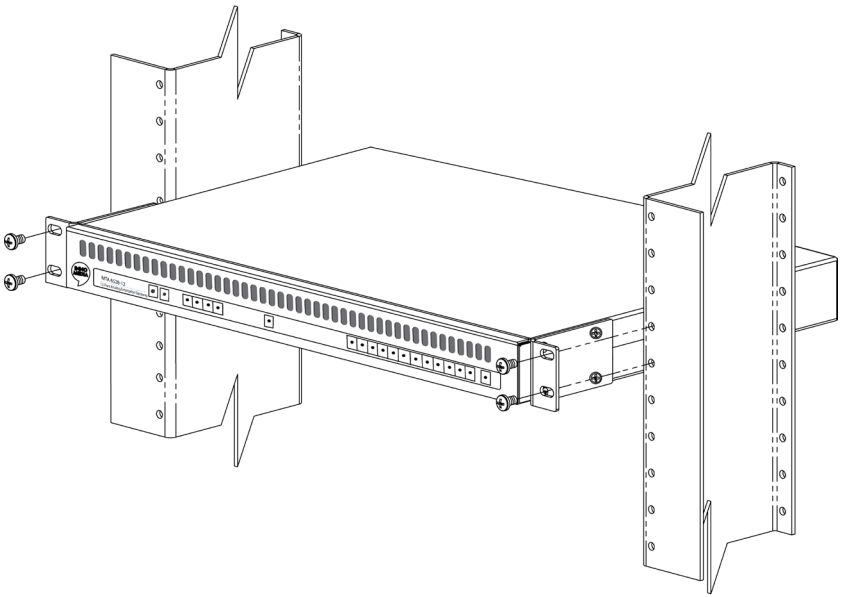
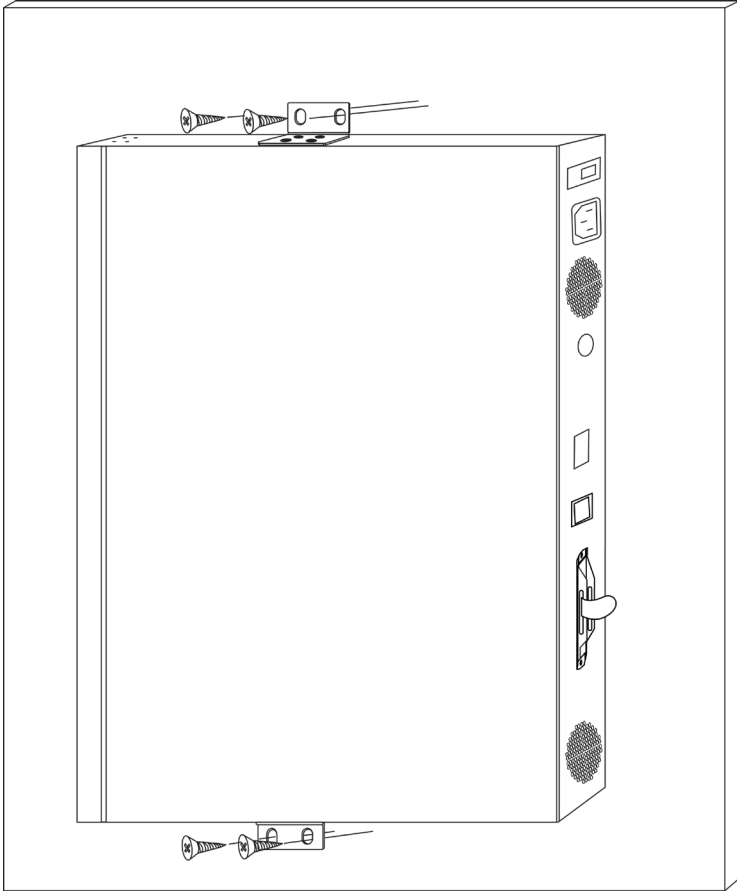


Figure 1

**- Wall Mount**

A wooden back-board is recommended for wall mount.

Install 4 wood screws or wall-mount mounting screws (not provided) into the back-board or the wall.



*Figure 2*

### Step 3: Connecting the Cables

1. Connect the active RF coaxial cable (from cable operator) to the “CABLE” connector.

**WARNING:**

Outdoor antenna should not be connected to the “CABLE” connector.

2. Connect a 25 pair/50 pin Amphenol cable to EMTA’s “12 ANALOG PORTS” connector. Secure the Amphenol cable using the Velcro straps. The Amphenol cable should be connected to a patch panel with RJ-11 ports. Connect a phone or fax machine to the RJ-11 port on the patch panel.
3. Optionally, connect your PC to “LAN” port using included RJ-45 cable.
4. Connect included AC power cable to the electrical outlet and its cable to the EMTA’s “AC IN 100-240V” connector. Optionally, connect the Battery Power Supply Cable (not provided) to the “UPS”. Note: Do not use both power cables (AC and UPS Battery Power Supply cables) at the same time!
5. Turn the Power Switch to the “ON” position and wait for the EMTA to complete provisioning.
6. If “ONLINE” light is blinking faster, 0.5 seconds ON and 0.5 seconds OFF intervals, system provisioning is in progress. Please wait until “ONLINE” indicator light is steady green.
7. At this point you have completed the EMTA installation. You will hear the dial tone when you pick up the handset of the phone or fax machine. You can now start placing and receiving telephone and fax calls.

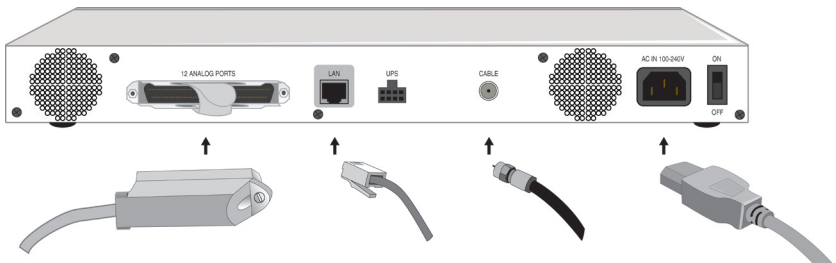


Figure 3

# Troubleshooting

**Problem:**

Telephone has no dial tone

**Solution:**

1. Ensure that all cables (power, RF, telephone) are properly connected to the EMTA. Ensure that the PWR, RECV, SEND, ONLINE indicator lights are ON (see front panel of EMTA).
2. Pick up telephone handset (phone off-hook), check for corresponding Ln (n=1-12) indicator light to be ON. If not, please disconnect EMTA power cable, and then reconnect it again (see front panel of EMTA).
3. If previous steps fail, report the failure to service provider for attention.

**Problem:**

Cannot establish Internet connection.

**Solution:**

1. If the PWR, RECV, SEND, and ONLINE LEDs are solidly lit, the EMTA is working properly. Try restarting the computer so that it could reestablish a connection with the network.
2. Power cycle the EMTA. Wait several minutes for the EMTA to reestablish communications with your service provider.
3. If your PC is connected to a hub or gateway, try connecting the PC directly into the LAN port.
4. If you are using a cable splitter, try removing the splitter and connect the cable modem directly to the cable wall outlet. Wait several minutes for the cable modem to reestablish communications with your cable service provider.
5. Your Ethernet cable may be damaged. Try using another cable.
6. If none of these suggestions work, contact your cable service provider for further assistance.

# Appendix A. Pinout for RJ-21 Connector

RJ-21Connector

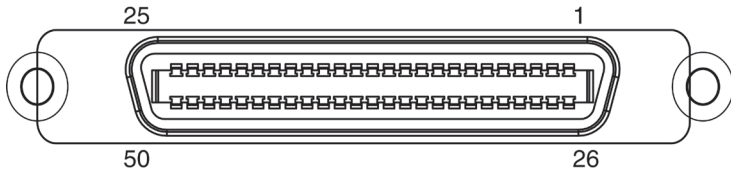


Figure 4

Port Number	Connector Pin Number	Signal
1	1 26	Ring Tip
2	2 27	Ring Tip
3	3 28	Ring Tip
4	4 29	Ring Tip
5	5 30	Ring Tip
6	6 31	Ring Tip
7	7 32	Ring Tip
8	8 33	Ring Tip
9	9 34	Ring Tip
10	10 35	Ring Tip
11	11 36	Ring Tip
12	12 37	Ring Tip
13	13 -- (NC*) 38	Ring Tip

Port Number	Connector Pin Number	Signal
14	14 -- (NC*) 39	Ring Tip
15	15 -- (NC*) 40	Ring Tip
16	16 -- (NC*) 41	Ring Tip
17	17 -- (NC*) 42	Ring Tip
18	18 -- (NC*) 43	Ring Tip
19	19 -- (NC*) 44	Ring Tip
20	20 -- (NC*) 45	Ring Tip
21	21 -- (NC*) 46	Ring Tip
22	22 -- (NC*) 47	Ring Tip
23	23 -- (NC*) 48	Ring Tip
24	24 -- (NC) 49	Ring Tip
-	25, 50	GND

\*NC = Not Connected

## Appendix B . LED Status Summary

LED / Control	Blinking State	EMTA 6528-12 State
L1 - L12	Blinking Amber	The connected telephone handset is on the hook (not in use) and there are new voice mail messages
	Steady Green	The connected telephone handset is off the hook
	Off	The connected telephone handset is on the hook (not in use) and there are no new voice mail messages
PWR	Steady Green	Device power is on
	Off	Device power is off
RECV	Steady Green	The cable modem module is locked to downstream frequency
	Blinking Green	The cable modem module is searching for downstream frequency
	Blinking Green simultaneous with SEND LED	The cable modem module is currently upgrading
	Off	The cable modem module is not locked to downstream frequency
SEND	Steady Green	The cable modem module is locked to upstream frequency
	Blinking Green	The cable modem module is searching for the upstream frequency
	Blinking Green simultaneous with RECV LED	The cable modem module is currently upgrading
	Off	The cable modem module is not locked to upstream frequency
ONLINE	Steady Green	The cable modem module has passed packet cable provisioning (including config file download) and is registered with the CMTS
	Blinking Green	The cable modem module is attempting to register with CMTS
	Off	The cable modem module has not passed provisioning and has not registered with the CMTS
PC/ACT	Solid Amber	When PC is connected to LAN Ethernet port
	Blinking Amber	PC Data is being transferred
	Off	No PC connected LAN Ethernet port
STBY	Solid Amber	When STANDBY button is pressed, no data is allowed to be passed from the PC
	Off	When STANDBY button is not pressed, data is allowed to be passed from the PC

# Specifications

Telephone Interface	12 FXS voice ports
	Connector 25 pair/50 pin Amphenol
	Signaling Loop start & Ground Start
Network Interface - Uplink	Coaxial Cable Jack
	Connector 75 ohm F-Type Female
Network Interface - Downlink	10/100 Base-T
	Connector RJ-45
RF Input Level	-15dBmV ~ +15dBmV
Frequency Range	Upstream: DOCSIS: 5~65Mhz
	Downstream: DOCSIS: 88-860MHz
Dimension	1.75 in (H) x 17.3 in (W) x 10 in (D)
	44.45 mm (H) x 439.42 mm (W) x 254 mm (D)
Power Supply	Input: AC 100~240V ~ 1.5A Max, 50~60Hz
	Output: 12V, 4.0A
	Battery Input: 12V @ 2.5A (30 W)
Power Consumption	48 Watts max. (Talk: 30 W, Idle: 8 W)
Operating Temperature	0°C to 40°C

