



T3 PowerBroadband

Power for the Enterprise Hotel



Line Power

Patented Adaptive Line Power is the key enabling feature. Line power operates over any single pair of telephone wire, concurrent and transparent with telephone service.

One Switch

The T3 Switch is the core device, installed in central phone room. Two GigE ports connect to the upstream network; and 25 UTP ports connect to downstream WallPlates.

Two WallPlates

m2 Ethernet WallPlate has 2 x FastEthernet ports, whereas the MC-802 Wireless WallPlate adds a managed, micro-cell 802.11 b/g AP. Install one or both WallPlate types on the same T3 Switch.

The T3 system from Motorola is purposefully designed for enterprise hospitality networks, and useful in any high density MDU. T3 uses the existing telephone wires to deliver Ethernet or 802.11 wireless networks.

Revenue Supporting Network

The T3 PowerBroadband system is fast - up to 75Mbps line rate to support current and future networks.

HD-IPTV requires high bandwidth and network intelligence to manage high bitrate video streams. To complement high line rate, T3 includes Layer 2+ IGMP proxy and high performance channel changing in as little as 50msec. Constant line quality monitoring and adaptable IGMP enhances network resilience and uptime.

802.11 Wireless can be quickly and effectively deployed using the same network architecture. MC-802 Wireless WallPlate integrates an 802.11b/g managed AP into the WallPlate form factor. With enterprise class security features and improved co-channel management, the MC-802 is the ideal wireless solution for guest Internet and hotel backoffice networks.

Ethernet RJ45 jacks on each WallPlate are managed by the T3 Switch, with 802.1Q PVIDs, QoS and state control. Whether used for guest wired Internet, VoIP, or IPTV; Ethernet networks and wireless backhaul run concurrent over the same pair of telephone grade wire.

Adaptive Line Power

Patented Adaptive Line Power (ALP) powers each Wall Plate up to 2,000 ft (600m) over the same wire pair as analog telephone service. Adaptive Line Power is transparent to telephone signals, delivering operating power to any desired telephone jack. The innovative design provides a predictable installation routine with minimal service interruption. With no power supply to lose or unplug; the tamper-proof WallPlate has high network availability and uptime.

Complete Management System

An intuitive webUI provides at-a-glance status of every port and every line. Quickly identify the quality of each client connection, whether wired or wireless. SNMPv2c support integrates management of the T3 Switch into any network management framework

SPECIFICATION SHEET

T3 PowerBroadband System

T3 Switch Specification

T3 PowerBroadband Switch

2 x RJ45, 10/100/1000Mbps
2 x RJ21, female telco
1 x dB9, female console port

MC-802 Wireless WallPlate

1 x 802.11b/g radio
2 x RJ45, 10/100Mbps
1 x RJ11, line in
1 x RJ11, filtered phone

m2 Ethernet WallPlate

2 x RJ45, 10/100Mbps
1 x RJ11, line in
1 x RJ11, filtered phone

Upstream Ethernet: 8-wire RJ45 connector. IEEE 802.3 10/100/1000BTX

Downstream UTP: 25-pair female RJ21 connector
Programmable QAM, per line rate adaptation

POTs pass-through: 25-pair female RJ21 connector
Integrated analog POTS splitter

Status LEDs: System Power
UTP ports: solid (linked), blink slow (enabled)
blink fast (linking)
Ethernet status: integrated green and amber for
link status and link speed

QoS: **Classification:** Dynamic IP TOS/802.1P COS, Port based
Buffer Management: WRED
Transmission Queues: Four queues with administrator
defined WFQ, Rate Shaping, Strict Priority

VLANs: 802.1 Q tagged VLANs or port isolation
VIDs 1-4094, 128 total configured VLANs per T3

Management: **Access:** Serial console, telnet, webUI, SNMPv2c
standard and enterprise MIB
Security: 20 IP ACL List, Management defined
VID, Two-level password protected access, RADIUS
authenticated administrator login
Other: external syslog function with local log file,
SNTP, Two system image banks, 32MB file system

Power : 100 – 240V AC, 50/60Hz; 300W max, 200W typical

Physical: 17.25" x 14.25" x 1.75" (43.8cm x 36.2cm x 4.4cm).
11.5lbs (5.2Kg)

Environment: 0 - 50 degrees Celsius, 5% to 90% NC

Mounting: EIA-19 rack mount ears provided. 90deg or 180deg
rotation mounting options

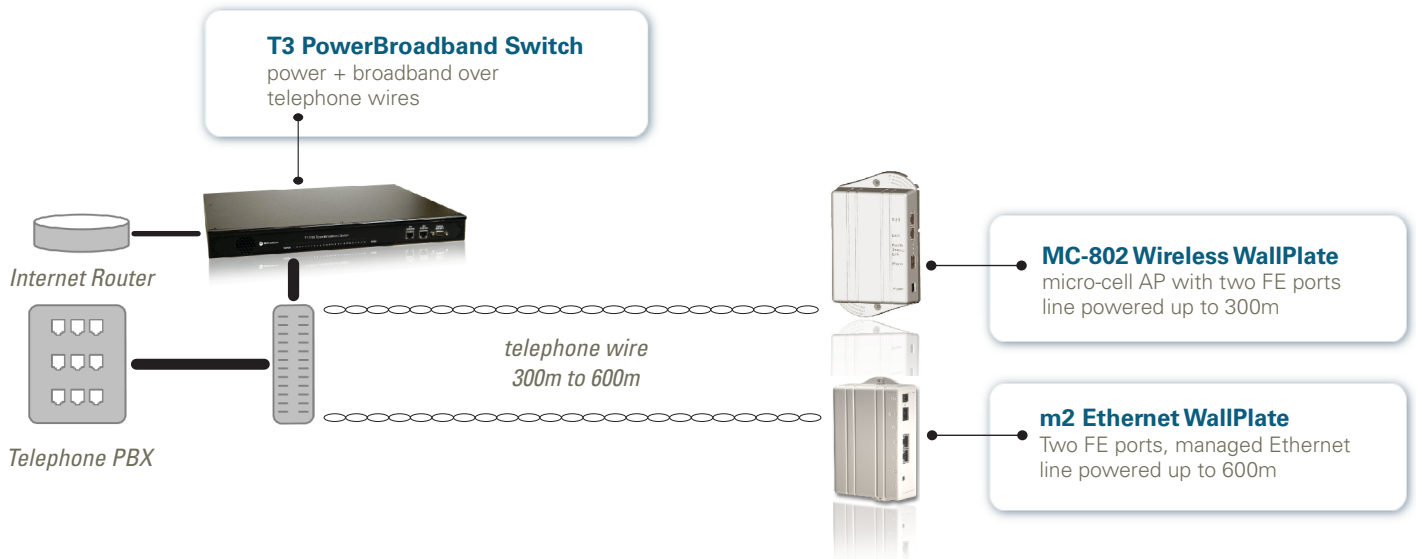
Safety: CE, TUV EN60950, IEC60950, ANZ C-Tick
Emissions: FCC Part15A, EN 55022: 1994/A1:1995/A2:Class A
Immunity: EN 55024:1998:Class A
RoHS: CE, CISPR 22
RoHS 2002/EC/95

Performance Chart

Distance	Line Rate
500 ft (150m)	75Mbps down /10Mbps up
1000 ft (300m)	75Mbps down /10Mbps up
1500 ft (450m)	60Mbps down /10Mbps up
2000 ft (600m)	50Mbps down /10Mbps up

Ordering Information

Part Number	Model	Description
558975-001-00	45225	25 port T3 PowerBroadband Switch with MobilityDuo software. 25 x downstream UTP ports, 2 x GigE uplink Ethernet ports. Compatible with all Ethernet WallPlates and MC-802 Wireless WallPlate. RoHS compliant.



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