



DATASHEET: TM-1000N

Semaphore Tactical Mesh Node 1000N



Semaphore Tactical Mesh offers portable and dynamic coverage solutions for rapid deployment multi-media networking to meet the needs of modern public safety, industrial and event management users.

In as little as 3 minutes, individual nodes can be unpacked and on-line, independent of power and routine environmental considerations.

Expansive coverage is instantly available for tactical solutions such as:

- Video Surveillance
- Data networking
- Video Conferencing
- Telemetry
- Voice-over-IP
- Mobile Asset Connectivity
- Remote Network Linking
- Data Terminal Access
- Drop Vehicle Connection
- Covert Connectivity

Advanced radio-mesh technology provided by **Aruba Networks** allows ad-hoc networks to scale and perform even in the face of severe environmental issues. Mesh networks can wrap around corners, over hills and through buildings with ease – and the addition of nodes is as simple as turning a new one on.

Interoperability

Every node is capable of providing network access as well as transport of multimedia information between nodes. This access is available using industry standard protocols (such as 802.11a/b/g/n), which means that your existing wireless client devices (laptops, cameras, etc.) can seamlessly communicate with the mesh – as can the devices of other groups and agencies, provided they have the appropriate security credentials provided by you to access the network.

Technical Specifications – Tactical Mesh Node 1000N

Enclosure

Characteristics:

- Watertight, crushproof, and dust proof
- Easy open Double Throw latches
- Open cell core with solid wall design - strong, light weight
- O-ring seal
- Automatic Pressure Equalization Valve
- Comfortable rubber over-molded handle
- Stainless steel hardware and padlock protectors

Available colors: Black, Silver, Orange, Yellow, OD Green, Desert Tan

Exterior Dimensions

(L x W x D) 16.00" x 13.00" x 6.87"
(40.6 x 33 x 17.4 cm)

Wired Network Interfaces

External Ethernet:

10/100 Fast Ethernet

Approvals

EMC: CFR47 FCC Part 15, RSS-Gen
RF: CFR47 FCC Part 15, RSS-210
Certification: FCC, IC, SRRRC (China)

Power

AC Input: 110 - 240VAC
AC Frequency: 50-60Hz
AC Current Max: 6A
DC Fuses: ATO In-Line

Security

Unique wireless router authentication and leading edge enterprise-class data encryption on transmission links to protect users' privacy.

Fully supports 802.11i, MAC address filtering, Radius, WEP, WPA, WPA2 and 802.1x TKIP (128bit), PSK, AES (256 bit) , TLS and TTLS

Wireless

Up to 2 radios that can each work in either AP mode or Backhaul mode

Supports 802.11a/b/g/n and 4.9GHz

Up to 4 BSSID for each radio

Up to 16 SSID for each radio

Frequency Bands:

2.400 — 2.483GHz

5.15 — 5.35Ghz

5.47 — 5.725Ghz

5.725 — 5.85Ghz

4.94 — 4.99GHz

Transmit Power:

Access: 100mW (20dBm)

Backhaul: 100mW (20dBm)

Receiver Sensitivity:

802.11a: -92 dBm @ 6 Mbps

802.11b: -96 dBm @ 1 Mbps

802.11g: -96 dBm @ 1 Mbps

Modulation:

OFDM, DSSS, CCK

per 802.11a/b/g/n standards

Antenna Connectors:

Dual QN Female

Environmental

Operating temperature:

0 to 50° C (32° F to 122° F)

Storage Temperature:

0 to 50° C (32° F to 122° F)

Humidity:

5% to 95% (non-condensing)

Transportation:

ISTA 2A

Battery

Optional batteries are Sealed Lead-Acid (SLA) Type Batteries, 12VDC, 7.2Ah