

## NOMAD Wireless Intercom - TR-1000



- ▶ IP-65 Rating for Outdoor Use
- ▶ Glitch-free and Redundant Audio & Control
- ▶ Full-duplex embedded microphone and front speaker with AEC for hands-free communication
- ▶ Bring your own headset - Multiple XLR pin-outs and 3.5mm headset jack

The RTS Nomad Wireless Intercom System is an integrated digital wireless communications system consisting of belt packs and access points communicating over encrypted DECT (Digital Enhanced Cordless Telecommunications) wireless technology. Communication between the access points and the Matrix uses OMNEO technology, the Dante-based platform for high-quality audio over IP. DECT is a license-free, globally accepted standard for wireless communication.

Each TR-1000 provides access to 16 active keypad assignments providing glitch-free audio and control. Belt packs are able to “roam” between access point locations with seamless communication.

The solid design of the RTS Nomad Wireless Intercom System is matched by the strength and flexibility of the communication system it supports. Integrating effortlessly with digital wired and legacy analog systems, Nomad redefines team coordination by wirelessly providing 16 channels of encrypted glitch-free audio and control to intercom users wherever they may roam.

### Technical specifications

#### General

	TR-1000 Beltpack
Audio	BV32 wideband audio
Bandwidth (over DECT)	20 Hz - 7.5 kHz
Backlit display	Color, 240 x 240 pixel, TFT
Typical battery life	18 hours
Wireless encryption	AES256

#### Environmental

	TR-1000 Beltpack
Operating temperature (°F)	14 °F - 104 °F
Operating temperature (°C)	-10 °C - 40 °C
Storage temperature (°F)	-4 °F - 140 °F
Storage temperature (°C)	-20 °C - 60 °C
Operating relative humidity, non-condensing (%)	10% - 90%
Dimensions (H x W x D) (in)	5.63 in x 3.90 in x 2.17 in
Dimensions (H x W x D) (mm)	143 mm x 99 mm x 55 mm
Weight (lb)	1.23 lb
Weight (kg)	0.56 kg

	TR-1000 Beltpack
Ingress protection (IP)	IP-65

**Battery**

	TR-1000 Beltpack
Battery Model	BP-1000 (Battery Pack)
Voltage (nominal)	3.7 V
Type	Li-Ion Polymer
Capacity	6600 mAh (minimum) 6700 mAh (typical)
Charge temperature (°F)	32 °F - 113 °F
Charge temperature (°C)	0 °C - 45 °C
Discharge temperature (°F)	-4 °F - 140 °F
Discharge temperature (°C)	-20 °C - 60 °C
Storage temperature (°F)	-4 °F - 140 °F
Storage temperature (°C)	-20 °C - 60 °C
Relative humidity	10% - 90%

**Controls**

	TR-1000 Beltpack
Level controls	Two rotary encoders
Talk/Listen control	4 top panel talk buttons (listen function programmable)
Full-Duplex audio paths	Up to 16
Number of assignment pages	4
Call waiting control	Reply and Clear functionality
Main menu sub-menus	Beltpack, Audio, Favorites, Setup, Pre-sets, Status

**Connections**

	TR-1000 Beltpack
Headset connectivity	XLR-5F, XLR-4F, XLR-4M (User replaceable) 3.5 mm
XLR	
Microphone	Dynamic or Electret (auto-detect)
Headset impedance	150 Ω nominal (32 Ω - 600 Ω)
3.5 mm	

	TR-1000 Beltpack
Microphone	Electret only
Headset impedance	32 Ω - 600 Ω
Aux in	1 Vrms (nominal), 20 Hz - 20 kHz (+0/-1 dB)
Aux out	1 Vrms (nominal), DECT: 20 Hz - 7.5 kHz
USB-C	
In-beltpack charging jack	Yes (15 W, 3 A @ 5 Vdc)
Firmware update jack	Yes
Lanyard	Integrated lanyard clip connection points

**Internal Microphone**

	TR-1000 Beltpack
Type	Omni-directional
Typical input	80 dBSPL
Max. input	100 dBSPL
Bandwidth	20 Hz - 20 kHz (+0/-3 dB) 20 Hz - 5 kHz (+0/-1 dB)

**Internal Speaker**

	TR-1000 Beltpack
Nominal output	84 dBSPL (1 kHz @ ½ meter)
Max. output	94 dBSPL (1 kHz @ ½ meter)
Frequency range	350 Hz - 6 kHz (+0/-3 dB)

**DECT Communications**

	TR-1000 Beltpack
RF frequency range (MHz)	1,920 MHz - 1,930 MHz (US, Canada) 1,880 MHz - 1,900 MHz (EU = Europe, Asia, Australia) 1,894 MHz - 1,906 MHz (Japan) 1,910 MHz - 1,930 MHz (Mexico, South America)
Communication protocol	DECT
Frequency selection	Automatic via DCS (Dynamic Channel Selection)
Modulation	DBPSK
Antennas DECT	Dual, internal inverted F antennas

	TR-1000 Beltpack
Delay-spread and multi-path RF protection	Next generation DECT channel compensation
Maximum peak RF output power (mW)	100 mW (20 dBm) (US, Canada, Malaysia) 250 mW (24 dBm) (Europe, Mexico, South America, Japan)
Average power (US, Canada, Malaysia)	4 mW
Average power (Europe, Mexico, South America, Japan)	10 mW

**Bluetooth Low Energy Communications**

	TR-1000 Beltpack
BLE 5.3 frequency range	2400 - 2483.5 MHz
Communication protocol	BLE 5.3
Modulation	GFSK
Antenna	Internal ¼-wave
Maximum output power	1 mW

**Ordering information**

**TR-1000 EU 4F Belt pack EU, 4F**

IP-65 wireless beltpack providing up to 16 full-duplex audio channels with call features. Requires AP-1000.  
Order number **TR-1000 EU 4F | F.01U.425.696**

**TR-1000 EU 4M Belt pack EU, 4M**

IP-65 wireless beltpack providing up to 16 full-duplex audio channels with call features. Requires AP-1000.  
Order number **TR-1000 EU 4M | F.01U.425.695**

**TR-1000 EU 5F Belt pack EU, 5F**

IP-65 wireless beltpack providing up to 16 full-duplex audio channels with call features. Requires AP-1000.  
Order number **TR-1000 EU 5F | F.01U.425.697**

**TR-1000 US 4F Belt pack US/Can, 4F**

IP-65 wireless beltpack providing up to 16 full-duplex audio channels with call features. Requires AP-1000.  
Order number **TR-1000 US 4F | F.01U.425.679**

**TR-1000 US 4M Belt pack US/Can, 4M**

IP-65 wireless beltpack providing up to 16 full-duplex audio channels with call features. Requires AP-1000.  
Order number **TR-1000 US 4M | F.01U.425.621**

**TR-1000 US 5F Belt pack US/Can, 5F**

IP-65 wireless beltpack providing up to 16 full-duplex audio channels with call features. Requires AP-1000.  
Order number **TR-1000 US 5F | F.01U.425.680**

**Accessories**

**BP-1000 TR-1000 spare battery**

state-of-art Li-Ion, prismatic, rechargeable battery  
Order number **BP-1000 | F.01U.425.739**

**TR-1000-XLR4F XLR cartridge 4-pin female**

XLR4F XLR Cartridge 4 Pin Female  
Order number **TR-1000-XLR4F | F.01U.425.711**

**TR-1000-XLR4M XLR cartridge 4-pin male**

XLR4M XLR Cartridge 4 Pin Male  
Order number **TR-1000-XLR4M | F.01U.425.710**

**TR-1000-XLR5F XLR cartridge 5-pin female**

XLR5F XLR Cartridge 5 Pin Female  
Order number **TR-1000-XLR5F | F.01U.425.712**

**TR-1000-BAR-BLK TR-1000 Color Bar - Black**

Field changeable color bar allowing you to easily distinguish TR-1000s.  
Order number **TR-1000-BAR-BLK | Z.01X.000.252**

**TR-1000-BAR-RED TR-1000 Color Bar - Red**

Field changeable color bar allowing you to easily distinguish TR-1000s.  
Order number **TR-1000-BAR-RED | Z.01X.000.255**

**TR-1000-BAR-BLU TR-1000 Color Bar - Blue**

Field changeable color bar allowing you to easily distinguish TR-1000s.  
Order number **TR-1000-BAR-BLU | Z.01X.000.258**

**TR-1000-BAR-GRN TR-1000 Color Bar - Green**

Field changeable color bar allowing you to easily distinguish TR-1000s.  
Order number **TR-1000-BAR-GRN | Z.01X.000.256**

**TR-1000-BAR-ORG TR-1000 Color Bar - Orange**

Field changeable color bar allowing you to easily distinguish TR-1000s.  
Order number **TR-1000-BAR-ORG | Z.01X.000.259**

**TR-1000-BAR-YLW TR-1000 Color Bar - Yellow**

Field changeable color bar allowing you to easily distinguish TR-1000s.  
Order number **TR-1000-BAR-YLW | Z.01X.000.257**

**CB-1000 Charging bay for 5 beltpacks**

5-bay charger providing users with a full-featured intelligent charger designed specifically for TR-1000 beltpacks and associated BP-1000 batteries.  
Order number **CB-1000 | F.01U.425.738**

**CB-1000-GWB Charger bay wall bracket**

Order number **CB-1000-GWB | F.01U.433.347**

**AP-1000 EU GRY Access point, grey, EU**

IP-65 wireless access point providing communications to TR-1000 beltpacks  
Order number **AP-1000 EU GRY | F.01U.436.414**

**AP-1000 EU WHT Access point, white, EU**

IP-65 wireless access point providing communications to TR-1000 beltpacks  
Order number **AP-1000 EU WHT | F.01U.425.681**

**AP-1000 US GRY Access point, grey, US/CA**

IP-65 wireless access point providing communications to TR-1000 beltpacks  
Order number **AP-1000 US GRY | F.01U.436.413**

**AP-1000 US WHT Access point, white, US/CA**  
IP-65 wireless access point providing communications to  
TR-1000 beltpacks  
Order number **AP-1000 US WHT | F.01U.425.620**

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