DTT-V-H SERIES
Industrial Desk / Wall Telephones

DTT-60-V-H with armored cord

DTT-50-V-H configured for desktop

DTT SERIES has optional push to talk PTT handset

DT RANGE OF TELEPHONES

Guardian's DT RANGE are desk and wall mounted industrial telephones designed to provide safe, reliable communication in industrial areas that are prone to harmful environments, where consumer phones are not suitable. Dust and Corrosion resistant.

DTT-V-H SERIES OF TELEPHONES

Guardian's DTT-V-H SERIES telephone is designed for use in Class 1 Div 2 hazardous locations. The DTT enclosure comes with an IP66 weather rating, high impact carbon loaded BMC industrial housing and ergonomic heavy-duty handset. These models are suitable for demanding applications indoors and outdoors.

Includes the new Guardian VoIP Sitara Class Control Module, fully redesigned with latest technology and enhancements and expandable and adaptable for future product development. Configuration changes can now be made and committed without a full reboot. Three drive partitions allows multiple versions of the firmware to be maintained. Logs and status bars are now included as part of the web interface. Improved hardware architecture to make field replacements of peripherals simple.

DTT-V-H SERIES INDUSTRIAL VoIP HAZARDOUS TELEPHONES

- DTT-50-V-H - Silicone Keypad/Handset/Heavy duty Curly Cord
- DTT-60-V-H - Silicone Keypad/Handset/Armored Cord

FEATURES and BENEFITS

- VoIP Sitara Class Control Module
  - The new OS with web interface to support product configuration easier with logs and status bars. Enhanced self-diagnostics. Interactive help.
  - Supports the latest security protocols (ie: TLS1.2) while still maintaining backwards compatibility.
  - SSL Certificates are supported. Web Interface Screen for SSL. Allows import of web, client and auto provisioning Client Certificates.
  - Compatible with SIP-based IP-PBX servers that comply with SIP (RFC 3261).
- "Full" duplex operation.
- PoE 802.3aT enabled (Power-over-Ethernet) or alternate power source (24VDC).
- IP66 compliant, static dissipative, high impact carbon loaded BMC industrial housing and ergonomic heavy duty handset.
- Back-lit LCD display – 2 line x 16 character: English, French or Spanish.
- Reversible base for desktop or wall mount configurations.
- Optional Push To Talk (PTT) switch in handset to manually enable microphone.
- Audio modes – handset and hands-free speaker phone.
- Corrosion resistant hardware.
- Noise canceling microphone.
- Magnetic reed hook switch to reduce parts subject to wear.
- Service temperature range from -22˚ to +140˚F (-30˚ to +60˚C).
- Removable handset retainer latches on cradle.
- Large urethane coated watertight silicon keypad.
- Autodial, memory, mute and menu configuration keys.
- Programmable auto hang-up timer.
- Hearing-aid compatible (HAC) receiver.
- Heavy duty curly handset cord on DTT-50-V-H or vandal resistant armored handset cord on DTT-60-V-H models.
- Two M20 and one M12 gland entries.
- Configurable Aux Relay (5A), Opto-Isolated Inputs and Outputs.
- Optically Isolated Inputs/Outputs for Sensors/Control.

APPLICATIONS

Refineries
Power Generation Facilities
Pulp and Paper Mills
Food Processing Plants
Chemical Plants
Material Sites
Cement Plants
Sewage Plants
Drilling Rigs
Hydroelectric Facilities
Warehouses
Mines
Greenhouses
and more . . .

GUARDIAN TELECOM

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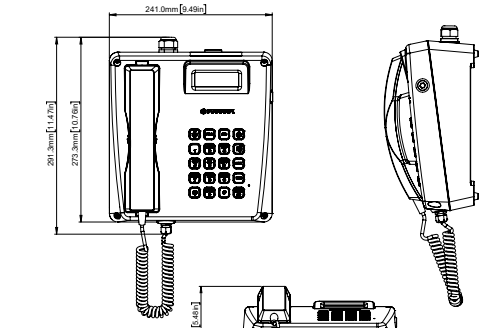
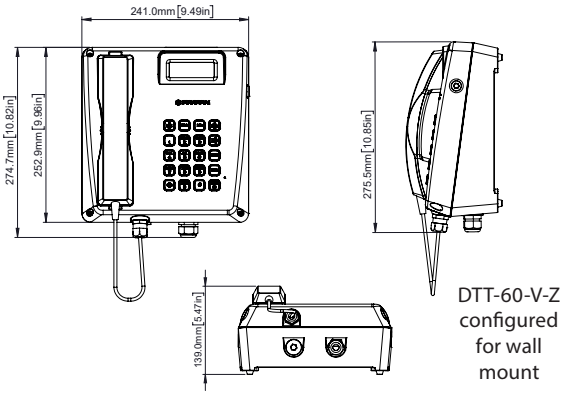
OVERALL DIMENSIONS



DTT-50-V-Z configured for desk mount



DTT-60-V-Z configured for wall mount

DTT-V-H Series Hazardous Area Industrial Desk/Wall IP Telephones

ENGINEERING SPECIFICATIONS

ELECTRICAL PERFORMANCE

Network Rate	10/100 Mbps
Protocol	SIP (RFC 3261 Compliant)
Codecs Supported:	G.711 (Mu-law)
	G.711 (A-law)
	G.729.1 (G729) and (G729EV)
	G.722.1 (SIREN7)
	G.722.2 (AMR-WB)

ELECTRICAL SPECIFICATIONS

Power Requirements	
Method 1 – Thru LAN: POE 802.3aT	Switch OR via POE Injector.
Method 2 – External PS:	24VDC @ 1A
Auxiliary Relay	5A, 250VAC/DC SPDT
Optical Isolated Inputs (qty 4)	15mA Max
	On-board current limited for 3-5V Input.
Optical Isolated Outputs (qty 4)	Max Switching Voltage: 30VDC @ 150mA

MECHANICAL SPECIFICATIONS

Hook Switch (Cradle Switch) Life	>1 000 000 Operations
Housing Material	High impact carbon loaded BMC
Handset Material	High impact carbon loaded BMC
Net Weight	8.68 lbs (3.95 kg)
Mechanical Dimensions	241mm[9.5"] W x 273mm [10.76"] L x 139mm [5.5"] H
Shipping Weight	10.7 lbs (4.9 kg)
Shipping Dimensions (L x W x D)	16.0" x 10.5" x 9.5" (407 x 267 x 242 mm)
Mounting	Desk or Wall
Microphone	Noise Canceling
Receiver	Hearing Aid Compatible (HAC)
Hardware Material	Stainless Steel
Wiring Access Points	2 x M20 & 1 x M12 Cable Gland Entry

*VoIP SITARA CLASS CONTROL MODULE **CONFIGURATION ENHANCEMENTS**

Easy one click activation for device changes - no full reboot required.
Keypad Mode Select – Choose between ring down or lock out keypad functionality.
Timed Auto-Answer.
User defined I/O monitoring and notification events with iGuard.
Improved auto provisioning for f/w / configuration updates.

*VoIP SITARA CLASS CONTROL MODULE **HARDWARE ENHANCEMENTS**

Expanded Keypad interface provides ample opportunity for custom applications.
New Screwless Terminal Block for ease of installation.
New User Controllable DC Relay with 5A @ 250VAC Rated Contacts.
4 Opto-Isolated inputs - Can use for monitoring external sensors, alarms, etc.
4 Opto-Isolated Outputs - Can use for control of external devices.

ENVIRONMENTAL

Operating Temperature	-22˚ to +140˚F (-30˚ to +60˚C)
Ingress Protection Rating	IP66
Humidity	0 to 95% RH

COMPLIANCE

UL/CUL	Class I, Division 2, Groups A, B, C and D
FCC	Title 47, Part 15
Canada	ICES-003 / NMB-A
European Commission Directives:	2014/30/EU & 2014/35/EU
	EN55032:2015
	EN55035:2017/A11:2020

* Refer to Guardian Telecom SDOC for additional details

FC CE

† This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

ORDERING INFORMATION

Warranty: Five year parts and labor

Order No.	*Description*
P3046	DTT-50-V-H Telephone/Curly Handset Cord
P3047	DTT-60-V-H Telephone/Armored Handset Cord

Options

20C-DTT-ZONE	20ft (6.1m) Coil Handset Cord for DTT-50-V-H
CC	Conformal Coated Circuit Board
Custom Colors	*Custom colors are available. Minimum quantities or premiums may apply. For details on custom options, contact a Guardian Telecom sales representative.*

GUARDIAN TELECOM

GUARDIAN TELECOM LTD.
Calgary, Alberta, Canada
Telephone: 403 258 3100 Facsimile: 403 255 2595
1 800 363 8010 (North America)
info@guardiantelecom.com | www.guardiantelecom.com