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Data Sheet

Universal Dual Path Communicator TL405LE

Upgrade Legacy Alarm Panels to Cellular and IP Connectivity

Landline connectivity is rapidly disappearing from the residential and small business markets. As consumers abandon their landlines for mobile phones and carriers switch from PSTN to VoIP networks, it's becoming critical to upgrade customers with landline-only alarm systems to cellular and IP connectivity.

With the Universal Dual Path Communicator (TL405LE), you can upgrade almost any legacy PSTN panel to LTE and IP and, using the ConnectAlarm mobile app, enable users to remotely arm, disarm and check the status of their legacy panels. This solution is a cost-effective way to enhance your customers' security, make their systems smarter and extend the life of their panels.

Breathe New Life into Legacy Panels

Key Features

- 4G LTE and Ethernet/IP communication channels
- CID to voice message, CID to push and CID to SMS message functions
- EN50136 approved
- Integrated antenna
- Remote programming by DLS 5
- Direct communication with CMS
- 6 programmable terminals (input/ output)
- USB port for local programming
- Connector for optional external antennas
- Optional Li-ion battery for 6 hours autonomy

Strengthen Alarm System Security

With cellular and IP communication, there is no risk of an intruder cutting the phone line, since there is no physical line. Communications channels are backed up, ensuring that alerts will always be sent to the monitoring service or user.

Make Alarm Systems Smarter

Offer customers advanced functionality that makes their lives easier and more comfortable. The Universal Dual Path Communicator provides:

- Remote arm/disarm, using a mobile device, by SMS or through the user app
- Basic smart home features, such as control of lights and appliances through dry contact outputs
- Useful information on what is happening – innovative decryption of any Contact ID and SIA codes into clear vocal messages, SMS or push notification enables real-time detailed notifications of the system status and the alarm, tamper and fault events
- Communication over LTE and IP networks – with monitoring providers using Sur-Gard and PowerManage receivers
- Specific templates for easily controlling DSC PowerSeries and PowerSeries Neo panels via the ConnectAlarm app

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Extend Panel Life and Reduce Costs

Empower customers to enhance their security and convenience without the expense of a new security system.

- Upgrade budget-conscious customers to more secure, smarter intrusion protection
- Enable customers without landlines to continue using their PSTN-only panels
- Provide an option for lower-cost cellular and IP communication where available

Key Specifications

- Simulates landline connectivity
- Automatically switches to GSM network and / or IP in the event of landline trouble (line down)
- GSM signal indicator
- 6 programmable terminals as open collector outputs or input lines
- Landline overvoltage protection
- 4G LTE cellular communicator
- Integrated antenna on board
- SMS/voice dialer
- CID to push notification
- Supports Contact ID communication format from a connected control panel for communication over the LTE and IP network
- Cellular / IP communication with Sur-Gard System I-IP/II/III/5 and PowerManage version 4.6 or or higher receivers
- Option to control through the ConnectAlarm user app
- PC-programmable options
- 32 SMS messages, each with a maximum length of 100 characters (2 for each input line plus 6 for status indications and 1 periodic)
- 8 telephone numbers (max. 16 digits) programmable for the SMS dialer
- 8 phone numbers programmable for Contact ID dialer on GPRS
- Up to 32 telephone numbers (max. 16 digits) programmable for the remote activation of the OC outputs
- Remote activation of the outputs through caller identification and/or SMS transmission
- Credit balance check for pre-paid SIM cards
- Panel Transmission Monitor (PTM)
- Integrated tamper switches
- PC-LINK connector
- USB type A connector (host and device)
- Programming through USB memory stick
- Advanced diagnostics and LOG recording
- Local and remote programming and firmware upgrade
- Alarm event transmission over LTE and IP
- Programmable priority between PSTN and cellular/IP
- Two-way voice communication on cellular
- Optional backup battery
- Anti-jamming

Specifications

Model	TL405LE-ANZ	TL450LE-EU	TL405LE-LAT
Input voltage	10.7 to 27.6 V		
Standby average current, without battery	90 mA (not including outputs) @ 13,8 V		
Maximum current drawn in current limited mode	230 mA (not including outputs) @ 13,8 V		
Maximum current drawn	450 mA (not including outputs) @ 13,8 V		
Outputs	6 open-collector, 100 mA		
Operating frequency (MHz)	2G: X 3G: 800/850/900/2100 4G/LTE: 700/800/850/900/1800/2100	2G: 900/1800 3G: 900/1800/2100 4G/LTE: 700/800/900/1800/2100/2600	2G: 850/900/1800/1900 3G: 850/1700/1900/2100 4G/LTE:700/850/1700/1800/1900/2100/2600
Maximum loop resistance of line between the device connected in series on LI	1 Kohm		
Maximum number of parallel devices connected on LI	1		
Environmental class	II		
Operating temperature	-10 to +40 °C		
Humidity	0 to 95%		
Dimensions (HxWxD)	208 x 155 x 62 mm		
Weight	500 g		

Models

TL405LE-ANZ: LTE + Ethernet communicator in plastic cabinet, Australia & New Zealand
TL405LE-EU: LTE + Ethernet communicator in plastic cabinet, EMEA & APAC
TL405LE-LAT: LTE + Ethernet communicator in plastic cabinet, Latin America

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