

# Commercial + Industrial: E650 S4x Ethernet

## Enhanced Metering for Commercial and Industrial Applications

The E650 S4x Ethernet electric endpoint sets a new standard for cost-effectiveness and versatility on a Commercial and Industrial metering platform. Expanding the communication technologies offered on Landis+Gyr's industry-leading C&I platform, the E650 S4x Ethernet endpoint is an 'under glass' solution that provides wired IP access to electrical meters across your service territory.

### PRIMESTONE INTEGRATION AND WEB PORTAL ACCESS FOR UP-TO-THE-MINUTE INFORMATION

- Communication with PrimeStone's PrimeRead headend software
- Secure web portal access to individual meters
- Access to up-to-the minute information including status, meter information, meter reads, instantaneous readings, and billing data

### ETHERNET CONNECTIVITY AND SECURITY

- Supports either Dynamic or Static IP addressing modes through an under the glass RJ-45 Ethernet communication module
- Supports Secure Shell (SSH) cryptographic network protocol using RSA encryption for secure connectivity without the bandwidth limitations of wireless networks

### HIGH-RESOLUTION C&I METROLOGY

- High-resolution, four-quadrant measurement of active and reactive energy, load profile, and TOU allow utilities to take full advantage of advanced grid management technologies
- Provides two alternative methods for calculating reactive and apparent energy and demand values
- Can be either directly measured or vectorially derived, giving an electric utility the ultimate flexibility in measurement and billing
- Stores metrics with milli-unit + micro-unit resolution, a significantly higher resolution than most competitive C&I meters

### EXPANDED MEMORY AND PROCESSING POWER

- Industry-leading RAM, ROM and non-volatile memory for load profile, self-reads and event logs.
- Standard 16-channel load profile memory of 256 KB can be upgraded to 1 MB without the need of additional hardware
- Optional 16 channel recorder
- Load profile data stored in 32 bit registers that can easily handle increased data resolution with interval overflow



# E650 S4x Ethernet Product Specifications

GENERAL SPECIFICATIONS	
ANSI C12.19 Standard Protocol	
Wired RJ-45 Ethernet Connection	
Interface with PrimeStone PrimeRead Head-End Software	
INTERNET INTERFACE STANDARDS	
Support	Dynamic (DHCP) or Static Addressing
	Secure Shell (SSH) (using RSA Encryption)
	Synchronous Time (via NTP Server)
	IPv6 Protocol
TEMPERATURE	
Operating Temperature	-25°C to +85°C
VOLTAGE	
Nominal Voltage (Standard Power Supply)	120-480V 2 and 3 Wire - 120, 208, 240, 277, 347, 480 4 Wire - 120/208, 240/416, 277/480, 347/600
Operating Voltage (Standard Power Supply)	98 to 552 VAC (line to neutral) Auto Ranging Power Supply
Frequency	50 or 60Hz ± 5%
Humidity	Less than or equal to 95% relative humidity, non-condensing
AVAILABLE FORMS	
Self-Contained S-Base	2S, 12S, 14/15/16/17S, 25S, 1S, 2SE, 12SE, 14/15/16/17SE, 25SE
Transformer Rated S-Base	3S, 3SC, 4S, 8/9S, 45S, 36S, 29S
APPLICABLE STANDARDS	
ANSI C12.1 for Electric Meters	
ANSI C12.19 Standard Protocol	
LAPEM GWH00-05 & 48 Certified, 9S and 16S only	

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