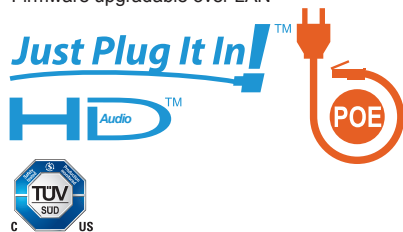## FEATURES

- Scrolling dot matrix marquee for emergency and routine messages
- Easy to read 7-segment clock display
- Displays current time in six digit format (HH:MM:ss)
- Displays date in English, French or Spanish
- Can provide visual call-in indication for eConsoles
- True digital network endpoint solution
- Provides two-way talkback from companion loudspeaker
- Integrates with eCS Call Stations
- Fully supervised and monitored for network connectivity
- Powered by Power-over-Ethernet (PoE)
- Features Just Plug It in!™ design
- Requires no IP address, DHCP server, subnet, or mask configuration
- No head end, central server or controller equipment required
- Enhanced message display capabilities
- Elapsed and count-down timer capabilities
- Single or dual face configuration
- Flush, surface or wall/ceiling mounting
- Anti-reflective cover optimizes readability
- Wide viewing angle
- Audible and visual call-in assurance
- Assigned to Zone(s) for Companion Textual Messages
- Supports auxiliary functions (door release, siren, strobe)
- Advanced features configurable using ePORT
- Firmware upgradable over LAN

Just Plug It In!™
HD Audio™
POE
TÜV SÜD c US

e365-TB-MA

eCS CALL STATIONS

DESCRIPTION

The Telecor e365-TB-MA Message Display/Calendar Clock Model A simultaneously displays plain text emergency or routine messages and independent numerically-coded messages. When not displaying a message, it displays the current time and date. Hours and minutes are displayed with large 2.25" digits. Seconds are slightly smaller for easy distinction. The date is displayed in plain text by a 10-character, dot matrix display showing the day of the week, followed by the month and date. The date can be displayed in English, French or Spanish.

A unique feature of the e365-TB-MA is its ability to support Telecor's e365-SPK Companion Talkback Speaker as well as Telecor's eCS-1, eCS-2, eCS-3 and eCS-6 Call Stations, all from a single network drop.

The e365-TB-MA uses Power-over-Ethernet technology, Just Plug It In!™ design, and a decentralized network structure to ensure easy wiring and simplified network planning. The use of Power-over-Ethernet technology allows the e365-TB-MA to be plugged into a PoE network switch to supply both power and data. The simplicity of Telecor's Just Plug It In!™ design means the e365-TB-MA does not require any network configuration or administration, eliminating IP address and DHCP server requirements. The decentralized network structure means no head end, central server or controller equipment is required to operate the network. Once plugged into the LAN with a valid time signal, the e365-TB-MA is immediately functional.

The e365-TB-MA is fully supervised and monitored for network connectivity, call destination, and call station connectivity, which is consistent with the NEMA SB-40 standard for communication systems. If the e365-TB-MA's network connection is lost, targeted e300 eConsoles will report that station as absent and display its dial number. When the e365-TB-MA is used with call stations, the call-in destinations are monitored. If the device at a call-in destination loses network connectivity, the e365-TB-MA will automatically search for an alternate destination. If no other suitable call-in destinations exist, the call station will audibly and visually indicate an error. If a wiring fault is detected between a Call Station and the e365-TB-MA, the e365-TB-MA will audibly and visually indicate the error. The ePort logs the location, time, date and type of fault. The ePort, eLog, eCI and eAmplifiers can also generate an alarm tone.

The Companion Speaker, when installed in conjunction with the e365-TB-MA, provides two-way intercom communications with eConsoles. The speaker will also receive paging announcements, audio programs, and time tone signals suitable for applications such as class or shift changes. It can be programmed as a member of a single paging zone or multiple paging zones. The volume of the Companion Speaker can be adjusted individually, by zone, or across the entire eSeries network via the ePort Management Interface or eCI Control Interface. Volume controls incorporated into certain eCS station models also allow a user to adjust the volume of a local Companion Speaker. Volume levels can be set for specific functions: intercom, paging, emergency paging, and Public Channel operations.

Call-in capabilities can be provided with addition of any of Telecor's eSeries Call Stations. The eCS-6 and eCS-3 are used to initiate Normal and Emergency calls respectively. Also available are advanced stations that provide additional features: the eCS-1 (Privacy and Normal Call), eCS-2 (Do Not Disturb and Normal Call), and eCS-4 (Volume Control, Public Channel Select and Normal Call).

The e365-TB-MA is equipped with three control relays. One relay can be activated remotely from an eConsole to support an auxiliary function (e.g. door control). The other two relays are used for emergency notifications, such as a strobe or combination strobe and siren. The strobe and siren relays are automatically activated on an emergency call-in or when receiving an audible or textual emergency message, but the siren is silenced once the speaker is active.

Enhanced Clock Messaging
In addition to displaying the time, the e365-TB-MA can be directly engaged by the Telecor software to display messages in the dot matrix section of the display. Messages can be transmitted to the Display as visual only messages, independent of any audio broadcast. Alternatively textual messages can be sent as an automatic companion message to a stored digital audio message from an eAmplifier. When the e365-TB-MA is a member of a zone distribution, the e365-TB-MA will automatically display the companion text message stored on the eAmplifier and broadcast the audio message on the companion speakers. Messages sent to the e365-TB-MA can be manually initiated from eConsoles, from contact closures from 3rd party hardware, or from the desktop of a PC via the eCI Interface protocol. Use of the eCI Interface protocol also allows the Message Display/Calendar Clock to show just textual messages independent of any audio messages.

telecor™ inc
mytelecor.com

In the USA: 2434 Jerauld Avenue; Niagara Falls, New York; 14305; Phone: (716) 285-8272 Fax: (716) 285-8287
In Canada (Corporate): 6205 Kestrel Road; Mississauga, Ontario; L5T 2A1; Phone: (905) 564-0801 Fax: (905) 564-0806

Rev: 1.0
E:\T4-09\CUTSHEET\T4-C09-C.ai/ad
ETS-2869
Printed in Canada

An e365-TB-MA can be added to a Group containing eConsoles or certain model eStations. When a call-in is placed to the Console Group, the e365-TB-MA will report the originating device's name, dial number and the priority of the call-in.

These messages can be used to alert personnel of an emergency or situation of concern. Optional strobes can also be activated when the e365-TB-MA receives emergency messages to draw attention to its display. This is ideal for communicating visual messages to people with hearing impairment during critical situations. In addition to plain text messages, the e365-TB-MA can also simultaneously display numerically-coded messages which can be activated independently to provide trained staff with additional context for the plain text messages.

In addition to displaying the time, the e365-TB-MA also features elapsed timer and count-down functions. By installing the Telecor 2481-TBP Timer Button Panel in conjunction with the e365-TB-MA, users are able to count upwards from zero to 24 hours or count down from a specified value to zero. Additionally, each e365-TB-MA also has a local input that will accept a relay closure to activate the elapsed or countdown timer operation. Timers can also be embedded into preset plain text messages.
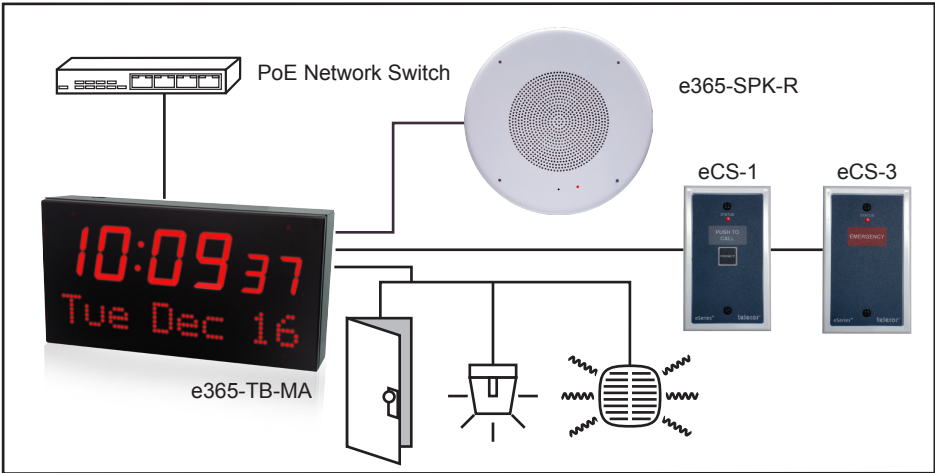
All e365-TB-MAs on the LAN are continuously synchronized to a Time Master connected anywhere on the same network. Examples of Time Masters include: the Telecor ePort Management Interface, eCI Control Interface, eLOG Logging Interface, eSIP Interface, or a PC running the Telecor Ethernet Time Server Software. Time corrections are performed instantaneously so that all e365-TB-MAs display the correct time. If communication is lost with the Time Master, the e365-TB-MAs will maintain the time independently and stay synchronized with each other. Once communication with the Time Master is re-established, the display will automatically resynchronize with the Time Master.

The e365-TB-MA can surface or flush mounted using the appropriate Back Box.

Model	Surface Mounted Backbox	Flush Mounted Backbox
e365-TB-MA	2431-BBS	2431-BBF

2431-BBF

2431-BBS

FLUSH AND SURFACE BACKBOXES
FOR e365-TB-MA

Example of e365-TB-MA Message Display/Calendar Clock and Call Station Configuration

Two surface mount e365-TB-MAs can be mounted back-to-back using a pair of 2431-BBS surface enclosures along with a 2423 Dual Mounting Kit, creating a double-face version. The Dual Mounting Kit is supplied with a bracket that allows the clock to be mounted 4" away from a wall or ceiling surface.

An optional 2433 Clock Guard is also available for the surface mount models of the e365-TB-MAs. The guards are constructed from sturdy, heavy gauge steel and include a plexiglass window that provides both protection and optimum visibility of the clock display.

e365-TB-MA MESSAGE DISPLAY/CALENDAR CLOCK SPECIFICATIONS

Type:	Surface and Flush Mount
Display:	Red AlGaAs "Super-Bright" LEDs
Display Characters:	
Time:	7 Segment
Date/Message:	Dot Matrix
Character Height:	
Time Display:	HH, MM: 2.25"; SS: 1.5"
Date Display:	1.0"
Power Source:	Power-over-Ethernet, IEEE 802.3af compliant
PoE Power Required:	
Alone:	Class 0, 7.0 W
with Speaker:	Class 0, 12.0 W
Network Interface:	RJ45 10/100 Mbit Ethernet
Hardware Protocols:	Ethernet MAC
Audio Format:	G.711.1 (wideband), Bandwidth of 50 Hz - 7 kHz @ 128 kbits/s (µLaw, 16 kHz sampling rate)
Audio Latency:	Typical 0.1 s
Connect Times:	
Paging:	0.01 s typical for 500 stations
Companion Speakers:	e365-SPK-R e365-SPK-SQ
Power Rating:	10 watts
Frequency Range:	30 Hz to 15 kHz
Axial Sensitivity:	96 dB at 3 ft (0.91 m)
Voice Coil:	¾" (19.1 mm) diameter
SPL:	104 dB at 3.3 ft (1 m)

Microphone (on Companion Speaker):

Type:	Omni Directional
Sensitivity:	-42 db (+/- 3dB)
Frequency:	20 Hz - 20 kHz
S/N Ratio:	60 dBA

Indicators (on Companion Speaker):

Front Panel:	Status
Internal:	Network Connection, Network Activity

Relays:	3 Switched Power from Auxiliary Power Input, Strobe, Siren
Contact Format:	DPDT
Contact Rating:	1 A @ 30 VDC or 0.3 A @ 125 VAC
Termination:	0.100 IDC
Switching Capacity:	1 A
Station Terminations:	RJ45 network connector
Wiring Requirements:	CAT5 or higher
Environment Requirements:	50-104°F/10-40°C, 0-90% relative humidity, non-condensing
Dimensions:	
Calendar Clock:	15" W x 8" H x 3.25" D 38.4 cm W x 20.5 cm H x 8.3 cm D
2431-BBF Recessed Enclosure:	14.13" W x 7.06" H x 3.13" D 36.2 cm W x 18.1 cm H x 8.0 cm D
2431-BBS Surface Enclosure:	15.06" W x 8.06" H x 4.5" D 38.6 cm W x 20.6 cm H x 11.5 cm D
Weight:	3.196 lb (1.45 kg)
Compliance:	UL/IEC/CAN/CSA-C22.2 No. 62368-1 EN 55032/CISPR 32 & EN 55024/CISPR 24 FCC Part 15 Subpart B, Class A ICES-003

TÜV SÜD   FC   CE

C US   CAN ICES-3 (A)/NMB-3(A)

PARTIAL LIST OF ASSOCIATED EQUIPMENT

2431-BBF	Flush Mount Backbox
2431-BBS	Surface Mount Backbox
2423	Dual Mounting Kit
2481-TBP	Timer Button Panel
2433	Protective Guard
e365-SPK-(R)(SQ)	Companion Speaker
SW-ETS	Ethernet Time Server Software
eCS-1	Call Station with Privacy
eCS-2	Call Station with Do Not Disturb
eCS-3	Emergency Call Station
eCS-4	Volume Control and Public Channel Select Call Station
eCS-5	Volume Control and Public Channel Select Station
eCS-6	Call Station
e300	eConsole
ePORT	Management Interface

All product information subject to change without notice.