



ESCORT MEMORY SYSTEMS
A Datalogic Group Company

FEATURES

Long range multi-protocol UHF RFID integrated controller/antenna for asset management and industrial applications

Powerful multi-tag arbitration allows many tags to be read within the field without interference

Reads UHF525HT Tags for high temperature applications such as paint ovens

FCC approved for North America use

Circular polarized antenna ensures capturing tag data when tag is at random orientations

Easy setup; single cable provides power and communication to the UHF-UN1

Ethernet 10 Base - T connectivity

Digital RF power control with adjustable RF power output to maximum allowed

Accommodates second slaved antenna for greater range and coverage flexibility

Four optically isolated general purpose I/O

COMMUNICATES WITH

Ethernet TCP/IP
COMPATIBLE TAGS
UHF525HT
UHF1000MMT
EPC Class 0
EPC Class 1
EPC Class 1 Gen2
ISO 18000-6B
EM Micro

Integrated UHF Controller/Antenna UHF-UN1



The Escort Memory Systems model UHF-UN1 is an integrated Ultra High Frequency multi-protocol RFID antenna/controller. Operating in the frequency range of 902-928 MHz, the UHF-UN1 reads and writes to EPC Global Gen2, Class 1, Class 0, Class 0+, ISO18000-6B, and EM Micro tags.

The UHF-UN1 is ideal for industrial applications where single or multiple tags must be read at long distance and at high speed. Escort Memory Systems also makes rugged UHF tags to operate with the antenna/controller to provide complete RFID solutions for factory and warehouse.

Integration of the antenna and controller within a compact assembly reduces the number of cables required and allows a simple and space-saving installation; Power-over-Ethernet (PoE) design provides both power and signal on a single cable.

Industrial automation features include the ability to connect a second unit to act as a slave antenna for increased read range and coverage. General purpose I/O connection points are optically isolated to support inputs from local sensors and outputs for controlling operator indicators, alarms, or light towers.

SPECIFICATIONS

Communications interfaces

Ethernet TCP/IP
Air Protocols
EPC Global Class 0
EPC Global Class 1
EPC Class 1 Generation 2
ISO 18000-6B
EM Micro

Compliances

FCC

Enclosure rating

IP20

Operating Temp

-20° C to +50° C (-4 to 122°F)

Storage Temp

35° C to +70° C (-31 to 158°F)

Humidity

95% non-condensing

Dimensions

216mm x 213mm x 31.75mm
(8.5in x 8.38in x 1.25 in)

Weight

1087 g (2.4lbs)

Connector

RJ45
10 point terminal strip
SMA

Power Rating

IEEE 802.3af PoE interface
standard
37-58VDC
5.8 Watts continuous

Antenna Properties

Circular polarization
-20.8 dB return loss

3 LED Indicators

Connectivity
Data traffic
Operation

RFID AT
WORK™



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APPLICATIONS

Material Handling

Asset Tracking

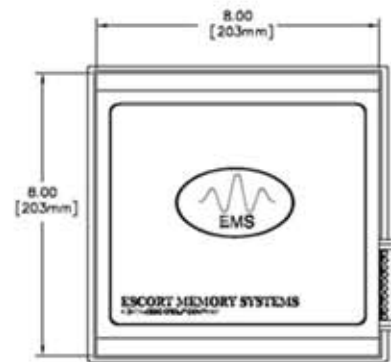
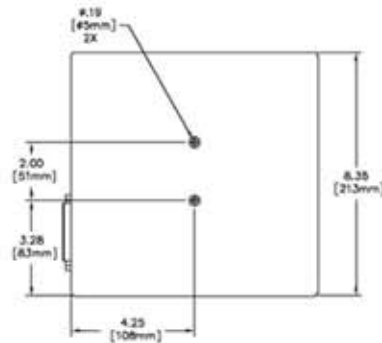
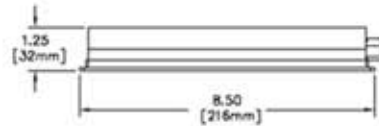
WIP Tracking

Process Control

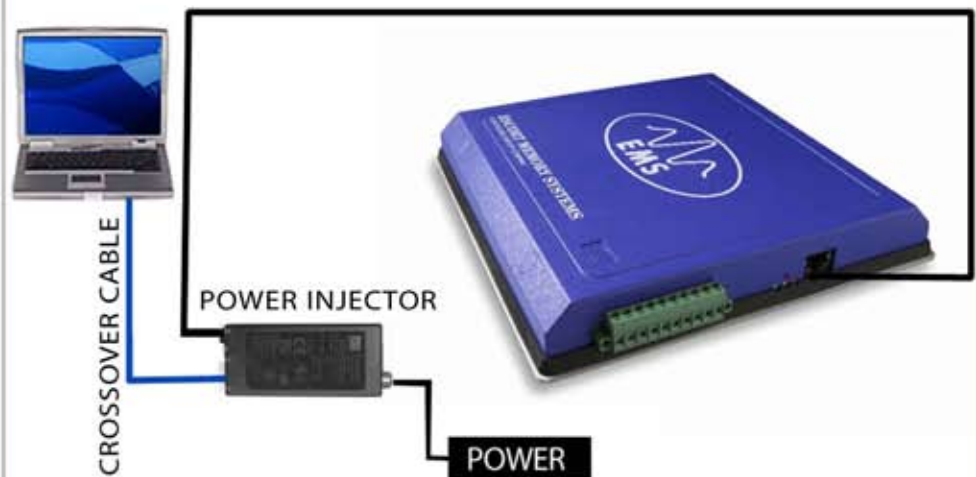
Container Tracking

Fleet Tracking

MECHANICAL SPECIFICATIONS



NETWORK DRAWINGS



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