ems

RFID AT WORK™

⊕DATALOGIC™

Cobalt UHF™

Rugged UHF RFID Controllers for Industrial Automation

FEATURES & BENEFITS

COBALT product family industrial RFID supports many fieldbus architectures for easy integration into existing factory networks.

C-MACRO™ command software and Dashboard utility simplify development and installation.

EPC Class 1 Gen 2 UHF standard is supported for maximum compatibility with tags from many sources.

Long-range reading distance for many factory automation, WIP, and other industrial uses.

Rugged case and connectors assure protection from moisture and dust in harsh environments.

Easy to read LED indicators provide helpful diagnostics for power, RF signal, and communications.

All models available in both ETSI and FCC frequency bands.

Rugged, highly connected EMS COBALT UHF™ RFID systems provide easily integrated and economical solutions for auto-ID on the factory floor. Dust and moisture protection assure years of reliable operation in harsh environments.

Connectivity is a hallmark of the Cobalt family including built-in options for Modbus TCP and Ethernet IP. In addition, CAN Open, Profinet, and CC Link are supported by the Datalogic CBX family of connection modules.

25+ years of experience with RFID systems for manufacturing are behind every EMS system, supported by Datalogic around the world.

CONNECTIVITY MODELS
UHF-CNTL-232-02-XX
UHF-CNTL-485-02-XX
UHF-CNTL-IND-02-XX
UHF-CNTL-DNT-02 (in 2009)
UHF-CNTL-PBS-02 (in 2009)

XX = 91 or 86 for freq. type

COMPATIBLE TAGS
UHF-G2-525HT
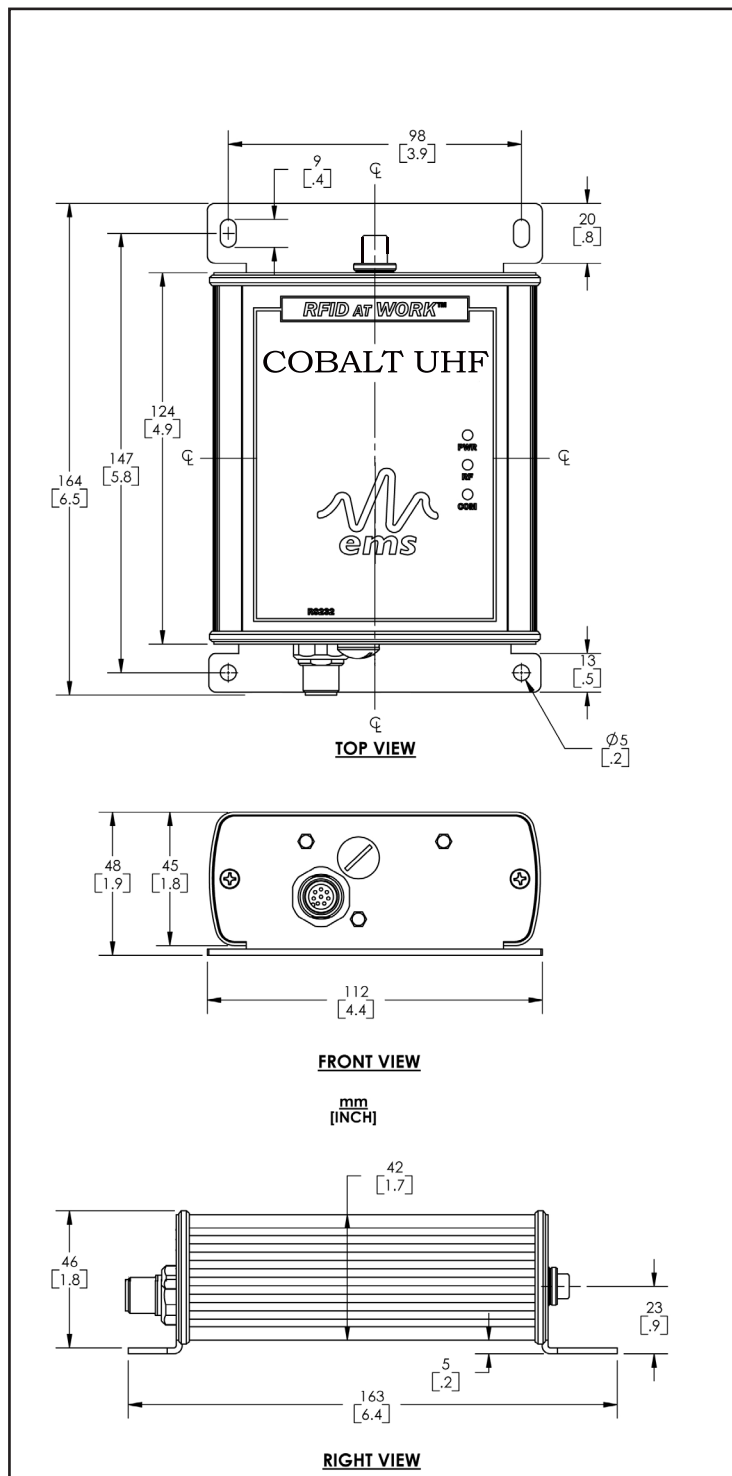UHF-G2-525 (in 2009)
All EPC Class 1, Gen 2.

RFID AIR PROTOCOL
EPC Class 1, Gen 2.

Cobalt UHF™

SPECIFICATIONS

	-91 Models	-86 Models
RF Frequency	902 - 928 MHz (FCC part 15)	865.6 - 867.6 (ETSI EN 302 208)
Nr. of Channels	50 per FCC part 15	10 per ETSI EN 302 208
Reference Antenna	UHF-ANT-3030-01-91	UHF-ANT-2626-01-86
Emitted Power with Reference Antenna	2.8 Watts ERP	1.7 Watts EIRP
Freq. Tolerance	+/-10 ppm	
Dimensions	164x112x48mm	
RFID Standard	EPC Class 1, Gen 2	
Power Supply	24 Vdc (10-30Vdc)	
Consumption	6.7 Watts; 280ma @ 24Vdc; 1 amp peak.	
Protection Class	IP65	
Shock Resistance	EN 60068-2-27 30G; 11ms, 3 shocks on each axis	
Vibration Resitance	EN 60068-2-6 1.5mm; 10 to 55Hz; 2 hrs ea axis	
Operating Temp.	-20 to 60 C (-4 to 165F)	
Storage Temp.	-40 to 85 C (-40 to 185F)	
Humidity	95% non condensing	
Connectors	M12; TNC type female	
Status LED's	Power, Comm, RF On	

ACCESSORIES

ANTENNAS	30x30cm (915MHz); 26x26cm (865MHz)
CABLE	3-meter Coaxial Cable UHF-CBL-03
COMMUNICATION	EMS Gateway and Hub to Subnet16™
	DATALOGIC CBX500 Connection Box with:
	BM600 CAN Open Module
	BM700 Profinet Module
	BM1100 CC-Link Module

TOP VIEW

FRONT VIEW

mm
[INCH]

RIGHT VIEW

www.ems-rfid.com

DATALOGIC AUTOMATION RFID BUSINESS UNIT PROUDLY OFFERS THE EMS LINE OF RFID TAGS, READERS, CONTROLLERS, ANTENNAS, AND COMMUNICATIONS GATEWAYS.