



RFID

Radio Frequency Identification Systems

PRODUCT GUIDE

High Frequency (HF)
Ultra High Frequency (UHF)

HIGH FREQUENCY INDUSTRIAL RFID

HF ANTENNAS

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Electric motor assembling
- Food processing
- Solar panel assembling
- Work-in-process tracking
- Equipment tracking
- Factory automation

HIGHLIGHTS

- Any HF-ANT model can be used with any HF-CNTL model controller

TECHNICAL DATA

- Operating temperature: -20 to 50°C
- Storage temperature: -40 to 85°C
- Compliance: FCC, CE
- Protection: IP65

MODELS

	HIGHLIGHTS	DIMENSIONS
HF-ANT-1010-01	Read/Write range up to 25cm	112x100x6mm
HF-ANT-2020-01	Read/Write range up to 38cm	200x200x6mm
HF-ANT-3030-01	Read/Write range up to 45cm	300x300x6mm
HF-ANT-0750-01	Conveyor antenna	70x500x6mm



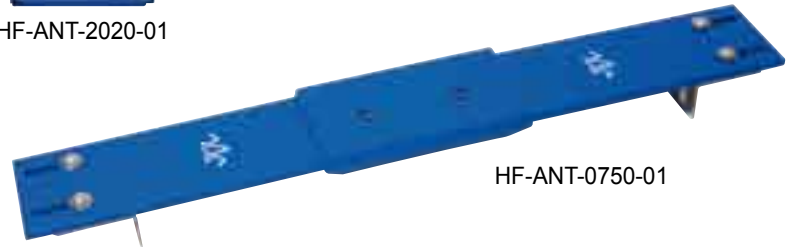
HF-ANT-3030-01



HF-ANT-2020-01



HF-ANT-1010-01



HF-ANT-0750-01

C SERIES INTEGRATED HF CONTROLLER/ANTENNAS

APPLICATIONS

- Automated pharmaceutical
- Packaging machines
- Electronics manufacturing
- Hard disk drive manufacturing
- Work-in-process
- Tool tracking

HIGHLIGHTS

- Compact, integrated design
- C-Macro™ application builder
- Cobalt electronics platform
- Cobalt universal software

TECHNICAL DATA

- Dimensions: 56x40x24mm (C0405 model)
103x73x24mm (C1007 model)
- Power: 10-30Vdc
- Operating temp: -20 to 50°C
- Storage temperature: -40 to 85°C
- Air protocol: ISO15693; ISO14443A
- RF frequency: 13.56MHz
- Compliance: FCC, CE, TELEC
- Protection: IP66



C0405



C1007

MODELS

	HIGHLIGHTS	CONNECTIVITY
C0405-232	Read/Write range up to 8cm	RS232 to 115.2Kbps
C0405-485	Read/Write range up to 8cm	RS485 with Subnet16
C0405-USB	Read/Write range up to 8cm	USB
C1007-232	Read/Write range up to 15cm	RS232 to 115.2Kbps
C1007-485	Read/Write range up to 15cm	RS485 with Subnet16
C1007-USB	Read/Write range up to 15cm	USB

HIGH FREQUENCY INDUSTRIAL RFID

COBALT HF CONTROLLERS

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Electric motor assembling
- Food processing
- Solar panel assembling
- Work-in-process tracking
- Equipment tracking
- Factory automation

HIGHLIGHTS

- Rugged, industrial design
- Read/Write to ISO15693 and ISO14443A tags
- C-Macro™ application builder
- Mix and match antennas
- Advanced electronics
- Universal software commands
- LED diagnostics

TECHNICAL DATA

- Dimensions: 114x112x45mm
164x112x45mm (PBS model)
- Power: 10-30Vdc
- Operating temperature: -20 to 50°C
- Storage temperature: -40 to 85°C
- Air protocol: ISO15693; ISO14443A
- RF frequency: 13.56MHz
- Compliance: FCC, CE
- Protection: IP65

MODELS

	CONNECTIVITY
HF-CNTL-232	RS232 up to 115.2Kbps
HF-CNTL-485	Connect to Subnet16™
HF-CNTL-DNT	DeviceNet™ direct connection
HF-CNTL-IND	Direct Connect to TCP/IP, Ethernet/IP, Modbus/TCP.
HF-CNTL-PBS	Profibus™ direct connection
HF-CNTL-USB	USB connect to PC's



COBALT HF

LRP HIGH TEMPERATURE ENCAPSULATED TAGS

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Electric motor assembling
- Food processing
- Solar panel assembling
- Work-in-process tracking
- Equipment tracking
- Factory automation

HIGHLIGHTS

- Extreme durability and resistance
- Easy to install
- Worldwide RFID Standard

TECHNICAL DATA

- Storage temperature: -40 to +200°C
- User memory: 112 Bytes
- Air protocol: ISO15693

MODELS

	HIGHLIGHTS	DIMENSIONS
LRP125HTS	Compact; range up to 23cm	Ø 25mm x 5mm
LRP250HTS	High performance	50mm ² x 5mm
LRP525HTS	Pallet-mount; brackets included	127x50x5mm

LRP STANDARD TEMPERATURE ENCAPSULATED TAGS

APPLICATIONS

- Automotive assembling
- Seat assembling
- Power trains
- Electric motor assembling
- Food processing
- Solar panel assembling
- Work-in-process tracking
- Equipment tracking
- Factory automation

HIGHLIGHTS

- Range of sizes fit many applications
- Extreme durability and resistance
- Worldwide RFID Standard

TECHNICAL DATA

- Storage temperature: -40 to +85°C
- User memory: 112 Bytes
- Air protocol: ISO15693

MODELS

	HIGHLIGHTS	DIMENSIONS
LRP108S	Miniature tag	Ø 8mm x 5mm
LRP125S	Compact; range up to 23cm	Ø 25mm x 5mm
LRP250S	Long range up to 40cm	50mm ² x 5mm
LRP525S	Pallet-mount; brackets included	127x50x5mm

HMS SERIES HF INDUSTRIAL RFID TAGS

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Electric motor assembling
- Food processing
- Solar panel assembling
- Work-in-process tracking
- Equipment tracking
- Factory automation

HIGHLIGHTS

- More memory than LRP-S
- Rugged
- Worldwide RFID Standard

TECHNICAL DATA

- User memory: 736 Bytes
- Protection: IP67
- Air protocol: ISO14443A

MODELS

HIGH TEMPERATURE ENCAPSULATED TAGS		
	HIGHLIGHTS	DIMENSIONS
HMS125HT	Very small HT tag	Ø 25mm x 5mm
HMS150HT	Ideal for paint lines	50mm ² x 5mm
STANDARD TEMPERATURE ENCAPSULATED TAGS		
	HIGHLIGHTS	DIMENSIONS
HMS108	Miniature tag	Ø 8mm x 5mm
HMS112	Compact size	Ø 12mm x 5mm
HMS125	Easy to install	Ø 25mm x 5mm
HMS150	Best range	50mm ² x 5mm



HMS150



HMS 108



LRP125HTS



LRP250HTS



LRP525HTS

HIGH FREQUENCY INDUSTRIAL RFID

PRINTED CIRCUIT BOARD TAGS

APPLICATIONS

- Embed into products and product carriers

HIGHLIGHTS

- Lower cost than encapsulated tags
- Range of sizes fit many applications
- Worldwide RFID Standard

TECHNICAL DATA

- Storage temperature: -40 to +85°C
- User memory: 112 Bytes
- Air protocol: ISO15693

MODELS

	APPLICATIONS	HIGHLIGHTS	DIMENSIONS
LRP-P108S	Device security and ID	Very small	Ø 7mm x 1.5mm
LRP-P125S	Embedded applications	Convenient size	Ø 22mm x 1.5mm
LRP125VS	Factory logistics	IP67 with 160C storage temperature	Ø 22mm x 3mm
LRP-P3858S	Door and furniture assembling	Longer Read/Write range	58x38x1.5mm
LRP-P4020S	Door and furniture assembling	Rectangular shape	40x20x1.5mm

LRP ONE KILOBYTE MEMORY TAGS

APPLICATIONS

- Automotive assembling
- Food processing
- Work-in-process tracking
- Equipment tracking
- Factory automation
- Electronics

HIGHLIGHTS

- Very small tags with high memory
- Worldwide RFID Standard

TECHNICAL DATA

- Storage temperature: -40 to +85°C
- User memory: 1000 Bytes
- Air protocol: ISO15693

MODELS

	HIGHLIGHTS	DIMENSIONS
LRP108I	Very small size	Ø 8mm, 5mm
LRP-P108I	Embeddable PCB tag	Ø 7mm, 1.5mm
LRP-P1212I	Embeddable PCB tag	12mm ² , 1.5mm

T-SERIES, TWO-KILOBYTE METAL MOUNT TAGS

APPLICATIONS

- Automotive assembling
- Food processing
- Work-in-process tracking
- Equipment tracking
- Factory automation
- Electronics

HIGHLIGHTS

- Mount on or embed into metal
- High temperature resistance
- Easy to install
- Worldwide RFID Standard

TECHNICAL DATA

- Storage temperature: -40 to +130°C
- User memory: 2000 Bytes FRAM
- Air protocol: ISO15693

MODELS

	HIGHLIGHTS	DIMENSIONS
T130	Durable and compact	Ø 32mm, 10mm



LRP-P108S



LRP-P125S



LRP108I



T130



LRP-P1212I



LRP-P4020S



LRP125VS

ULTRA-HIGH FREQUENCY INDUSTRIAL RFID

COBALT UHF CONTROLLERS

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Machine assembling
- Work-in-process tracking
- Equipment tracking

HIGHLIGHTS

- Rugged, industrial design
- Class 1, Gen 2 RFID Standard
- C-Macro™ application builder
- US (FCC) or EU (ETSI) frequency
- Advanced electronics
- Universal SW commands
- LED diagnostics

TECHNICAL DATA

- Dimensions: 164x112x45
- Power: 10-30Vdc
- Operating temperature: -20 to 50°C
- Storage temperature: -40 to 85°C
- Protection: IP65

MODELS

	CONNECTIVITY
UHF-CNTL-232-XX US or EU	RS232 up to 115.2Kbps
UHF-CNTL-485-XX US or EU	Connect to Subnet16™
UHF-CNTL-IND-XX US or EU	Direct Connect to Ethernet/IP, TCP/IP, Modbus TCP

UHF ANTENNAS

APPLICATIONS

- Use with Cobalt UHF Controllers

HIGHLIGHTS

- Circular polarization supports many tag orientations
- High Front-to-Back signal ratio

TECHNICAL DATA

- Operating temperature: -20 to 50°C
- Protection: IP67

MODELS

	HIGHLIGHTS	DIMENSIONS
UHF-ANT-3030-02-91 (US)	FCC-approved frequency range	305x305x25mm
UHF-ANT-2626-01-86 (EU)	ETSI (EU) approved freq. range	260x260x30mm

UHF TAGS

APPLICATIONS

- Paint Lines
- Seat assembling
- Power trains
- Machine assembling
- Work-in-process tracking

HIGHLIGHTS

- Class 1, Gen. 2 RFID Standard
- Survives high temperatures
- Rugged tag for harsh environments
- Extended user memory

TECHNICAL DATA

- Dimensions: 127x50x5mm
- Storage temperature: 200°C
- User memory: 512Bits (64Bytes)
- RFID Standard: EPC C1G2

COBALT UHF



UHF-G2-525HT



UHF-ANT-3030

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Machine assembling
- Work-in-process tracking
- Equipment tracking

HIGHLIGHTS

- Supports all Cobalt HF and UHF controllers with RS485 interface
- Greater connectivity for compact devices such as C0405 and C1007
- Supports the 16-Node Subnet16™ RS485 network
- Full range of IP-rated cables and accessories
- Plug-and-play node replacement
- LED diagnostics

TECHNICAL DATA

- Dimensions: 89x76x32mm
- Protection: IP31
- Connectors: M12
- Power: 10-30Vdc
- Operating temperature: 0 to 50°C
- Enclosure: 304 stainless steel

MODELS

	CONNECTIVITY
GWY-01-TCP-01	Connect to TCP/IP networks
GWY-01-IND-01	Connect to TCP/IP, Ethernet/IP and Modbus/TCP
GWY-01-232-01	Connect to RS232
GWY-01-DNT-01	Connect to DeviceNet

APPLICATIONS

- Automotive assembling
- Paint lines
- Seat assembling
- Power trains
- Machine assembling
- Work-in-process tracking
- Equipment tracking

HIGHLIGHTS

- Supports all Cobalt HF and UHF controllers with RS485 interface
- 4-Node Hub for network connection
- Local 4 INPUTS and 4 OUPUTS
- Full range of IP-Rated cables and accessories
- Plug-and-play node replacement
- LED diagnostics

TECHNICAL DATA

- Dimensions: 185x89x32mm
- Protection: IP31
- Connectors: M12
- Power: 10-30Vdc
- Operating temperature: 0 to 50°C
- Enclosure: 304 stainless steel

MODELS

	CONNECTIVITY
HUB-04-TCP-01	Connect to TCP/IP networks
HUB-04-IND-01	Connect to TCP/IP, Ethernet/IP and Modbus/TCP



HUB-04-TCP-01



GWY-01-IND-01

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