



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



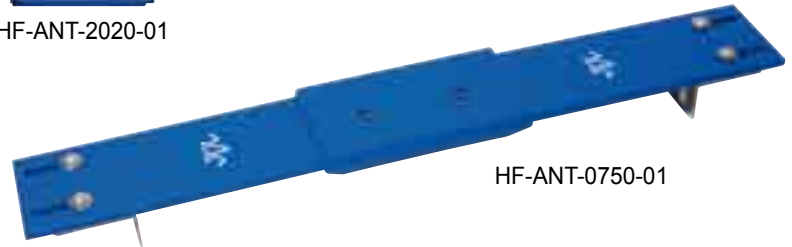
HF-ANT-3030-01



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

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



C0405



C1007

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

EUROPE

DATALOGIC AUTOMATION

Headquarters

Via S. Vitalino, 13
40012 Lippo di Calderara di Reno
Bologna - Italy
Tel. +39 051/3147011
Fax +39 051/3147453
info.automation.it@datalogic.com

DATALOGIC AUTOMATION Iberia

Sucursal en España

C/ Samonta, 21 Local 0, Planta Baja
08970 Sant Joan Despi
Barcelona - Spain
Tel. +34 (0)93/4772059
Fax +34 (0)93/4777272
info.automation.es@datalogic.com

DATALOGIC AUTOMATION s.r.l.

Italian Filial

Höjdrodergatan 21
21239 Malmö - Sweden
Tel. +46 (0)40/385000
Fax +46 (0)40/385001
info.automation.se@datalogic.com

DATALOGIC AUTOMATION Benelux

Coltbaan 25
3439 NG Nieuwegein - The Netherlands
Tel. +31 (0)30/6023410
Fax +31 (0)30/6022064
info.automation.nl@datalogic.com

DATALOGIC AUTOMATION s.r.l.

Niederlassung Central Europe

Uracher Straße 22
D-73268 Erkenbrechtsweiler
Germany
Tel. +49 (0)7026/6080
Fax +49 (0)7026/608849
info.automation.de@datalogic.com

DATALOGIC AUTOMATION UK

Datalogic House
Dunstable Road - Redbourn
AL3 7PR Hertfordshire - England
Tel. +44 (0)1582/464900
Fax +44 (0)1582/464999
info.automation.uk@datalogic.com

DATALOGIC AUTOMATION S.r.l.

Succursale en France

Le Parc Technologique de Lyon
333 cours du 3ème Millénaire - Le Pôle
69800 Saint Priest - France
Tél. +33 (0)4/72476180
Fax +33 (0)4/72470721
info.automation.fr@datalogic.com

AMERICA

DATALOGIC AUTOMATION Inc

3000 Earhart Court, Suite 135
Hebron, Kentucky 41048 - United States
Tel. +1 (0)859/6897000
Fax +1 (0)859/3344970
info.automation.us@datalogic.com

ASIA

DATALOGIC AUTOMATION Asia Ltd

Suite 902, Suncome Liauw's Plaza,
738 Shang Cheng Road, Pudong,
Shanghai 200120 - China
Tel: +86 (0)21/58366692/3
Fax: +86 (0)21/58366695
info.automation.cn@datalogic.com

DATALOGIC AUTOMATION Asia Ltd

Unit 1-3, 7/F, Yuen Long Trading Centre,
33 Wang Yip Street West, Yuen Long, NT. - Hong Kong
Tel +852 2785/3912
Fax +852 2785/3913
info.automation.hk@datalogic.com

IDEC DATALOGIC.CO.LTD

7-31, Nishi - Miyahara 1 - Chome
Yodogawa, Ku Osaka 532004 - Japan
Tel. +816 6398/3200
Fax +816 6398/3202
info.automation.jp@datalogic.com

AUSTRALIA - NEW ZEALAND

DATALOGIC AUTOMATION Pty Ltd

Unit 130, 45 Gilby Road
Mt Waverley
Victoria, 3149 - Australia
Tel. +61 (0)3/95589299
Fax: +61 (0)3/95589233
info.automation.au@datalogic.com



Product and Company names and logos referenced may be either trademarks or registered trademarks of their respective companies. We reserve the right to make modifications and improvements.

DATALOGIC™

DATALOGIC AUTOMATION