Dlink w/CPDLC

ALL-IN-ONE data communications in a single LRU

Spectralux avionics

Dlink w/CPDLC

by Spectralux Avionics

THE EASIEST, MOST COST-EFFECTIVE LINK 2000+ CPDLC MANDATE...WITH ALL IN ONE BOX.

DESIGNATED AIRSPACE FOR OPERATION ABOVE FL285

1 January 2011

After this date all new aircraft operating at or above FL285 must be equipped with a compliant system.

5 February 2015

After this date all aircraft operating at or above FL285 must be equipped with a compliant system.

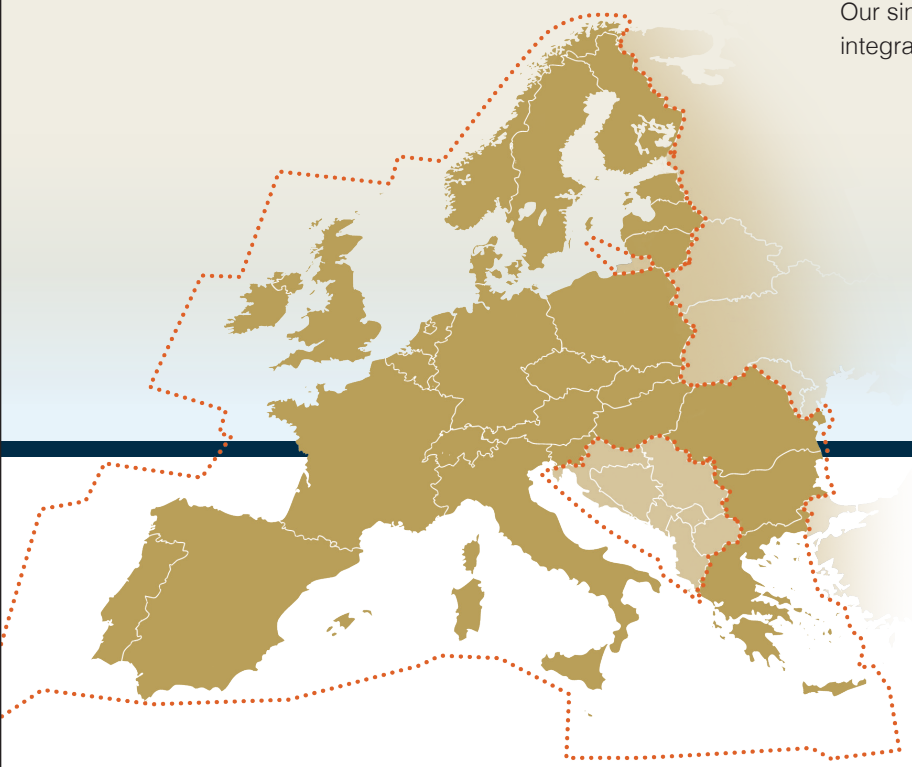
CONTINUOUS COMMUNICATION

CPDLC (Controller Pilot Data Link Communications) addresses the capacity limits of voice communication in designated European air space. This is accomplished by providing controller and pilots an air/ground data link.

ACARS (Aircraft Communication Addressing and Reporting System) facilitates communication between the flight crew and ground-based operations in all phases of flight.

EASY TO INSTALL

Our single box solution avoids complex installation and integration — simplifying the certification process.



PARK / TAXI

From Aircraft	To Aircraft
Out	PDC
Link test	ATIS
Fuel/Crew info	Weight & balance
Delay reports/ETD	V-speeds
PDC request	Maintenance request
ATIS request	Max power take-off
Initialization request	Flight plan

TAKE-OFF

From Aircraft
Off with ETA
Engine data

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WAY TO SATISFY THE EUROCONTROL
THE BENEFITS OF ACARS.

ALL-IN-ONE DATA COMMUNICATIONS SOLUTION

ATN/CPDLC

VDL Mode 2 Radio

ACARS

Intuitive Pilot Interface

Out/Off/On/In

Pre-Departure Clearance

Extensive I/O for Aircraft Systems

DLINK+ w/CPDLC
All-in-one: CMU, CDU, VDR

On

In

DEPARTURE

From Aircraft	To Aircraft
Engine data	Flight plan
Engine take-off report	Updated weather

EN ROUTE

From Aircraft	To Aircraft
Position reports	ATC oceanic clearances
Weather reports	Weather reports
Delay request	Amended clearances
Voice request	Operations free text
Engine info	Ground voice request (SELCAL)
Pre-defined messages: medical, emergency, etc.	
Oceanic clearance	

APPROACH

From Aircraft	To Aircraft
Provisioning	Gate assignments
Gate requests	Connecting gates
ETA	Passenger & crew ATIS
Special requests	
Engine info	
Maintenance info	
ATIS request	

LANDING

From Aircraft
On

TAXI / PARK

From Aircraft
In
Fuel info
Crew info
Fault data
Post flight

Spectralux Avionics is at the center of the EUROCONTROL Link 2000+ CPDLC initiative with its high-speed digital data communications systems.

GENERAL SPECIFICATIONS

	Dlink+	Dlink+ w/CPDLC
DZUS Mount	5.8"w x 4.5"h x 8.7"d	5.8"w x 4.5"h x 8.7"d
Weight	6 Pounds	6 Pounds
Display Internal	Monochrome EL 9 Line Display x 24 Characters	Monochrome EL 9 Line Display x 24 Characters
Power	Nominal 28 VDC (18–32 VDC Range) 30 Watts Typical 150 Watts Max (Transmit < 1sec)	Nominal 28 VDC (20.5–32.2 VDC Range) 25 Watts Typical 160 Watts Max (Transmit < 1sec)
Temperature	Operating -15° to +55°C Short-term Operating -15° to +70°C Survival -55° to +85°C	Operating -15° to +55°C Short-term Operating -40° to +70°C Survival -55° to +85°C
Environmental	RTCA DO-160D	RTCA DO-160E
Software	RTCA DO-178B Level D	RTCA DO-178B Level C
Complex Hardware	RTCA DO-254 Level D	RTCA DO-254 Level C
TSO	FAA TSO-C113	FAA TSO-C113, TSO-C160
VHF RADIO	VDL Mode A/2 Data Only	VDL Mode A/2 Data Only
INPUTS		
ARINC 429 Receivers	5	8
RS-232 Receivers	2	–
RS-422 Receiver	1	–
Discrete	8	8
OUTPUTS		
ARINC 429 Transmitters	2	4
RS-232 Transmitters	2	–
RS-422 Transmitter	1	–
Discrete	4	4
MICROPROCESSORS		
Motorola MPC860EN	39MHz	39MHz
Memory	16MB Flash, 8MB SDRAM on Each Microprocessor-based PCA	16MB Flash, 8MB SDRAM on Each Microprocessor-based PCA
DSP	TI TMS320VC5410A	TI TMS320VC5410A
Memory	On Chip 64K Words RAM	On Chip 64K Words RAM

Specifications may change without notice.

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