

G7324-() Touch Screen Radio Controller for Genesys Digital Radio (GDR)



G7324-10 shown



GENERAL SPECIFICATIONS

Dimensions

- 1.485 in (height) x 5.735 in (width) x 0.376 in (max depth), excluding rear connector

Weight

- 0.5 lbs (max)

Frequency/Tuning Ranges

- VHF COM Tuning Range from 118.000 to 136.990 MHz using 25 kHz/8.33 kHz spacing (136.975 MHz using 25 kHz and can be extended up to 155.975 MHz using 25 kHz spacing)
- UHF COM Tuning Range from 225.000 to 399.975 MHz
- NAV Tuning Range from 108.000 to 117.950 MHz
- Marker Beacon Sensitivity – High and Low

Electrical Requirements

- Power 28 VDC, 10 Watt (max)
- Display Backlighting & Panel Lighting 0-5 VAC/DC or 0-28 VDC

Display

- Resolution QVGA
- Active area (diagonal) 3.53 inches
- Pixel configuration R,G,B stripe
- Luminance 120 foot Lamberts, LED lighting
- Viewing angle +/- 50° (horizontal), +/- 50° (vertical)
- Touch screen 4-wire resistive, F-G construction

Cooling

- Passive, no forced air required

Connectors

- J1 Mating: MS3476L14-19S or equivalent 19 pin connector

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Color

- Front Panel – Non-reflective Black FED STD 595b37038 or Non-reflective Gray FED STD 595b36118
- Pushbuttons/Knobs – Non-reflective Black FED STD 595b37038
- Front Panel Markings – White FED STD 595b37875 (Futura Medium Condensed font)

Compliance

- RTCA/DO-160G (Environmental), RTCA/DO-178C (Software)
- ARINC 720, RS-232
- TSO-C113b

Features

- Generic, reconfigurable, display controller
- Supports Genesys GDR family of radios
- Controls VHF/UHF COM, VOR/ILS and Marker Beacon
- Touchscreen display
- Rotary encoder with integrated pushbutton
- Field programmable software updates through RS-232 port
- 2 RS-232 input / output ports
- 4 ARINC 720 input / output discretes
- LED backlighting for higher reliability
- NVIS option available (variant dependent)
- MTBF (Estimated): 20,000 operating hours
- Field configurable parameters through panel only:
 - VHF
 - Extended VHF
 - UHF
 - Squelch Level
 - Guard Frequency Enable
 - NAV (VOR/ILS)
 - DME Hold
 - Marker
 - Audio Mode (Voice/Ident) Filter
 - Volume
 - Concentric Pushbutton Alternative
 - Manual Dimming

GDR Model	VOR/ILS	Marker Beacon	VHF COM 136 MHz	VHF COM 156 MHz	UHF COM 225-400 MHz	TX Power (Watts)
GDR-1636	X	X	X			16
GDR-1656	X	X		X		16
GDR-1636U	X	X	X		X	16
GDR-1656U	X	X		X	X	16
GDR-2536	X	X	X			25
GDR-2556	X	X		X		25
GDR-2536U	X	X	X		X	25
GDR-2556U	X	X		X	X	25
GDR-1624U					X	16
GDR-2524U					X	25