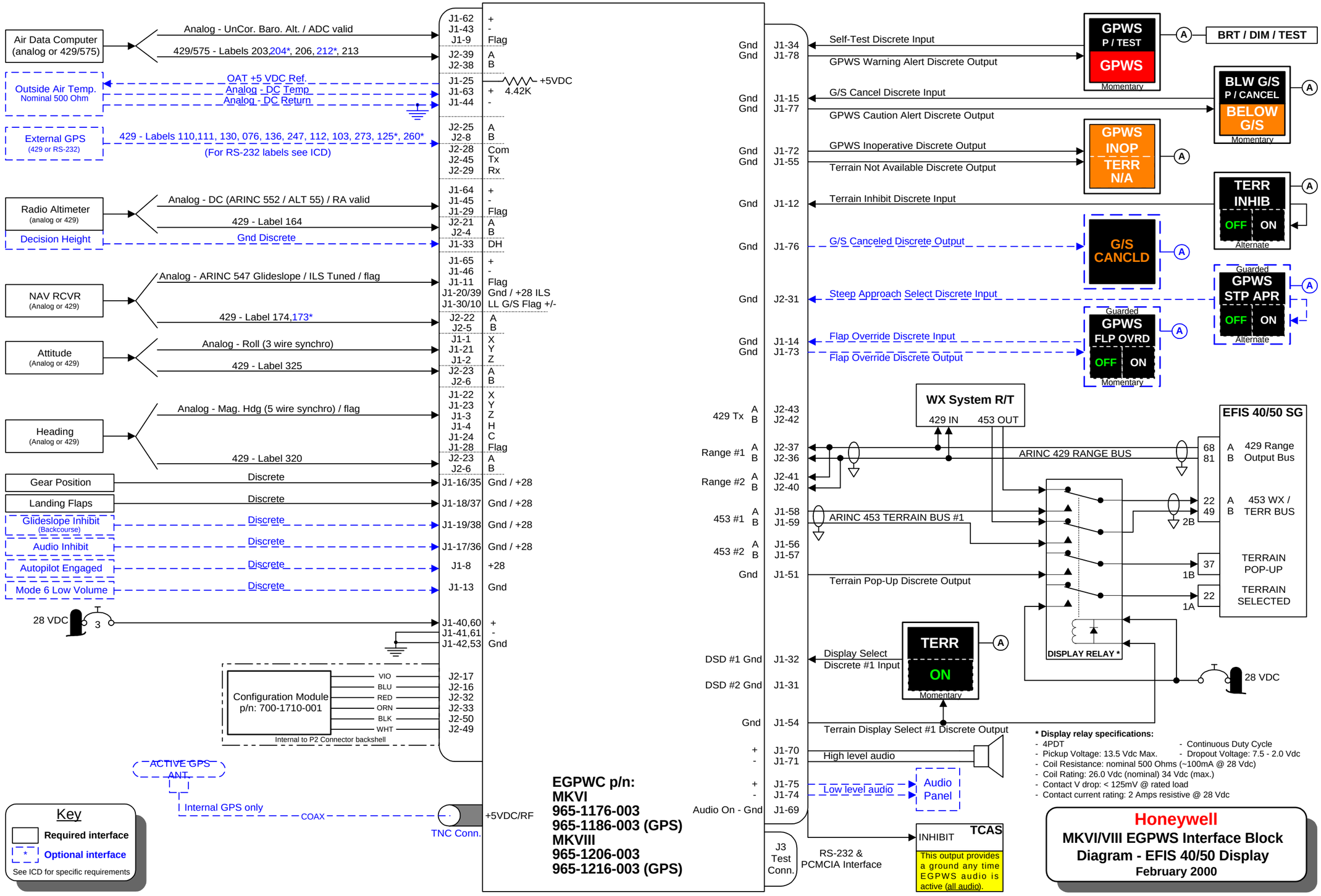
Air Data Computer (analog or 429/575)
Analog - UnCor. Baro. Alt. / ADC valid
429/575 - Labels 203,204*, 206, 212*, 213
J1-62 +
J1-43 -
J1-9 Flag
J2-39 A
J2-38 B
Outside Air Temp. Nominal 500 Ohm
OAT +5 VDC Ref.
Analog - DC Temp
Analog - DC Return
J1-25
J1-63
J1-44
+5VDC
4.42K
External GPS (429 or RS-232)
429 - Labels 110,111, 130, 076, 136, 247, 112, 103, 273, 125*, 260*
(For RS-232 labels see ICD)
J2-25 A
J2-8 B
J2-28 Com
J2-45 Tx
J2-29 Rx
Radio Altimeter (analog or 429)
Analog - DC (ARINC 552 / ALT 55) / RA valid
429 - Label 164
Decision Height
Gnd Discrete
J1-64 +
J1-45 -
J1-29 Flag
J2-21 A
J2-4 B
J1-33 DH
NAV RCVR (Analog or 429)
Analog - ARINC 547 Glideslope / ILS Tuned / flag
429 - Label 174,173*
J1-65 +
J1-46 -
J1-11 Flag
J1-20/39 Gnd / +28 ILS
J1-30/10 LL G/S Flag +/-
J2-22 A
J2-5 B
Attitude (Analog or 429)
Analog - Roll (3 wire synchro)
429 - Label 325
J1-1 X
J1-21 Y
J1-2 Z
J2-23 A
J2-6 B
Heading (Analog or 429)
Analog - Mag. Hdg (5 wire synchro) / flag
429 - Label 320
J1-22 X
J1-23 Y
J1-3 Z
J1-4 H
J1-24 C
J1-28 Flag
J2-23 A
J2-6 B
Gear Position
Discrete
J1-16/35 Gnd / +28
Landing Flaps
Discrete
J1-18/37 Gnd / +28
Glideslope Inhibit (Backcourse)
Discrete
J1-19/38 Gnd / +28
Audio Inhibit
Discrete
J1-17/36 Gnd / +28
Autopilot Engaged
Discrete
J1-8 +28
Mode 6 Low Volume
Discrete
J1-13 Gnd
28 VDC
3
J1-40,60 +
J1-41,61 -
J1-42,53 Gnd
Configuration Module p/n: 700-1710-001
Internal to P2 Connector backshell
VIO J2-17
BLU J2-16
RED J2-32
ORN J2-33
BLK J2-50
WHT J2-49
ACTIVE GPS ANT.
Internal GPS only
COAX
TNC Conn.
+5VDC/RF
Key
Required interface
Optional interface
See ICD for specific requirements
EGPWC p/n:
MKVI
965-1176-003
965-1186-003 (GPS)
MKVIII
965-1206-003
965-1216-003 (GPS)
Gnd J1-34
Gnd J1-78
Self-Test Discrete Input
GPWS Warning Alert Discrete Output
GPWS P / TEST
GPWS
Momentary
A
BRT / DIM / TEST
Gnd J1-15
Gnd J1-77
G/S Cancel Discrete Input
GPWS Caution Alert Discrete Output
BLW G/S P / CANCEL
BELOW G/S
Momentary
Gnd J1-72
Gnd J1-55
GPWS Inoperative Discrete Output
Terrain Not Available Discrete Output
GPWS INOP
TERR N/A
Gnd J1-12
Terrain Inhibit Discrete Input
TERR INHIB
OFF ON
Alternate
Gnd J1-76
G/S Canceled Discrete Output
G/S CANCLD
Gnd J2-31
Steep Approach Select Discrete Input
Guarded
GPWS STP APR
OFF ON
Alternate
Gnd J1-14
Gnd J1-73
Flap Override Discrete Input
Flap Override Discrete Output
Guarded
GPWS FLP OVRD
OFF ON
Momentary
WX System R/T
429 IN
453 OUT
429 Tx A J2-43
B J2-42
Range #1 A J2-37
B J2-36
ARINC 429 RANGE BUS
Range #2 A J2-41
B J2-40
453 #1 A J1-58
B J1-59
ARINC 453 TERRAIN BUS #1
453 #2 A J1-56
B J1-57
Gnd J1-51
Terrain Pop-Up Discrete Output
EFIS 40/50 SG
68 A 429 Range
81 B Output Bus
22 A 453 WX /
49 B TERR BUS
2B
37 TERRAIN POP-UP
1B
22 TERRAIN SELECTED
1A
DISPLAY RELAY *
DSD #1 Gnd J1-32
Display Select Discrete #1 Input
TERR
ON
Momentary
DSD #2 Gnd J1-31
28 VDC
Gnd J1-54
Terrain Display Select #1 Discrete Output
+ J1-70
- J1-71
High level audio
+ J1-75
- J1-74
Low level audio
Audio Panel
Audio On - Gnd J1-69
INHIBIT
TCAS
This output provides a ground any time EGPWS audio is active (all audio).
J3 Test Conn.
RS-232 & PCMCIA Interface
* Display relay specifications:
- 4PDT
- Continuous Duty Cycle
- Pickup Voltage: 13.5 Vdc Max.
- Dropout Voltage: 7.5 - 2.0 Vdc
- Coil Resistance: nominal 500 Ohms (~100mA @ 28 Vdc)
- Coil Rating: 26.0 Vdc (nominal) 34 Vdc (max.)
- Contact V drop: < 125mV @ rated load
- Contact current rating: 2 Amps resistive @ 28 Vdc
Honeywell
MKVI/VIII EGPWS Interface Block Diagram - EFIS 40/50 Display
February 2000