

Project 25 Compliance Assessment Program
 Summary Test Report
 EF Johnson ATLAS 4500 700/800 MHz Repeater
 STR-EFJ-16030901
 March 9, 2016

Test Item Description	
Manufacturer	EF Johnson Technologies
Manufacturer Contact	John Oblak (507) 382-6327
Product Name	ATLAS 4500 700/800 MHz Repeater
Installed Options	Trunking Software TSNI 1.3.2_7
Vocoder Identification	Not Applicable – The repeater does not incorporate a vocoder

Test Description
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Performance
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Performance
P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.3.2 – Project 25 Phase 1 Common Air Interface Trunked Base station/Repeater Interoperability

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	March 8, 2016
Date of Issue	March 9, 2016

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	March 3, 2016 to March 8, 2016
Date of Issue	March 9, 2016

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	December 15, 2015 to December 17, 2015
Date of Issue	December 21, 2015

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	December 15, 2015 to December 17, 2015
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Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	December 15, 2015 to December 17, 2015
Date of Issue	December 21, 2015

Test Information	
P25 CAP Laboratory Code	P25CAP081010 (EF Johnson Technologies)
Date(s) of Test	March 8, 2016
Date of Issue	March 9, 2016

Informative References	
Date	Title
March 2010	P25-CAB-CAI_TEST_REQ-March 2010

Other Devices Tested with ATLAS UHF Repeater		
Manufacturer	Product Name, Definition, and Unique ID	Installed Options
EF Johnson	Viking VP900 Series Portable	SEM Encryption Module
Kenwood	NX-5400-K3 Series Portable	Encryption Installed
Motorola	XTS 5000 Series Portable	Encryption Installed
Technisonic Industries, LTD	TDFM-9000	Encryption Installed

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Performance		DTR-P25CAP081010-16030902	
Receiver Tests			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 90 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 80 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P
2.1.17	Late Entry Unsquench Delay		
	No Talk Group or Encryption	≤ 125 ms	N1
	Talk Group Only	≤ 370 ms	N1
	Encryption Only	≤ 370 ms	N1
	Both Talk Group and Encryption	≤ 460 ms	N1
2.1.18	Receiver Throughput Delay	≤ 125 ms	N1

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Performance		DTR-P25CAP081010-16030902	
Transmitter Tests (800 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	N2
2.2.15	Frequency Deviation for C4FM High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior Time Interval $t_1 = 20$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f \leq 12.5$ kHz	P

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.1 – Project 25 Phase 1 Common Air Interface Conventional Base Station/Repeater Performance		DTR-P25CAP081010-16030902	
Transmitter Tests (700 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio Offset From Center Frequency		
	9.375 kHz	≥ 40 dB	P
	15.625, 21.875, 37.5 kHz	≥ 60 dB	P
	62.5, 87.5, 150, 250, 350 kHz	≥ 65 dB	P
	>400 kHz to 12 MHz	≥ 80 dB	P
	12 MHz to the Paired RX Band In the Paired RX Band	≥ 80 dB ≥ 100 dB	P P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	N2
2.2.15	Frequency Deviation for C4FM High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f \leq 12.5$ kHz	P

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Receiver Tests			
Test Case	Description	Requirement	Results
2.1.4	Reference Sensitivity	≤ -116 dBm (Class A)	P
2.1.5	Faded Reference Sensitivity	≤ -108 dBm (Class A)	P
2.1.7	Adjacent Channel Rejection	≥ 60 dB (Class A)	P
2.1.8	Co-Channel Rejection	≤ 9 dB	P
2.1.9	Spurious Response Rejection	≥ 90 dB (Class A)	P
2.1.10	Intermodulation Rejection	≥ 80 dB (Class A)	P
2.1.11	Signal Displacement Bandwidth	≥ 1000 Hz	P

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Transmitter Tests (800 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio	≥ 67 dB	P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	N2
2.2.15	Frequency Deviation for C4FM High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior Time Interval $t_1 = 20$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f \leq 12.5$ kHz	P

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Transmitter Tests (700 MHz)			
Test Case	Description	Requirement	Results
2.2.8	Unwanted Emissions: Adjacent Channel Power Ratio Offset From Center Frequency		
	9.375 kHz	≥ 40 dB	P
	15.625, 21.875, 37.5 kHz	≥ 60 dB	P
	62.5, 87.5, 150, 250, 350 kHz	≥ 65 dB	P
	>400 kHz to 12 MHz	≥ 80 dB	P
	12 MHz to the Paired RX Band In the Paired RX Band	≥ 80 dB ≥ 100 dB	P P
2.2.14	Transmitter Throughput Delay	≤ 125 ms	N2
2.2.15	Frequency Deviation for C4FM High Level Signal Deviation	$2544 \text{ Hz} < f_{\text{dev}} \leq 3111 \text{ Hz}$	P
	Low Level Signal Deviation	$848 \text{ Hz} < f_{\text{dev}} \leq 1037 \text{ Hz}$	P
2.2.16	Modulation Fidelity	$\leq 5\%$ (Class A)	P
2.2.18	Transient Frequency Behavior		
	Time Interval $t_1 = 20$ ms	$ \Delta f \leq 12.5$ kHz	P
	Time Interval $t_2 = 50$ ms	$ \Delta f \leq 6.25$ kHz	P
	Time Interval $t_3 = 10$ ms	$ \Delta f \leq 12.5$ kHz	P

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.1.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Performance		DTR-P25CAP081010-16030902 DTR-P25CAP081010-16030901	
Trunking Infrastructure Tests			
Test Case	Description	Requirement	Results
2.3.3	Trunking Voice Access Time	500 ms (Manufacturer Specified)	P
2.3.4	Time to Grant		
	Non-Simulcast 37.5 ms ISP	Single TSBK < 337.5 ms	N4
		Double TSBK < 354.0 ms	N4
		Triple TSBK < 366.5 ms	P
	Non-Simulcast 45 ms ISP	Single TSBK < 345.0 ms	N4
		Double TSBK < 361.5 ms	N4
		Triple TSBK < 374.0 ms	P
	Simulcast 37.5 ms ISP	Single TSBK < 487.5 ms	N3
		Double TSBK < 504.0 ms	N3
		Triple TSBK < 516.5 ms	N3
	Simulcast 45 ms ISP	Single TSBK < 495.0 ms	N3
		Double TSBK < 511.5 ms	N3
		Triple TSBK < 524.0 ms	N3

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P25-CAB-CAI_TEST_REQ – March 2010, Section 2.2.3.2 – Project 25 Phase 1 Common Air Interface Trunked Base Station/Repeater Interoperability		DTR-P25CAP081010-15122102	DTR-P25CAP081010-15122103	DTR-P25CAP081010-15122104	DTR-P25CAP081010-16030903
EF Johnson ATLAS 4500 Trunked Repeater (See note N5)		EF Johnson Viking VP900 Portable	Kenwood NX-5400 Portable	Motorola XTS 5000	Technisonic Industries, LTD.
Test Case	Description				
2.2.1	Full Registration				
2.2.1.4.1	Test Case 1 - Valid Registration				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.1.4.2	Test Case 2 – Denied or Refused Registration				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.1.4.3	Test Case 3 - Unverified Registration				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.2	Group Voice Call				
2.2.2.4.1	Test Case 1 – Group Call Granted				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.2.4.2	Test Case 2 – Group Call Denied				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.2.4.3	Test Case 3 – Group Call Request Queued				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3

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EF Johnson ATLAS 4500 Trunked Repeater		EF Johnson Viking VP900 Portable	Kenwood NX-5400 Portable	Motorola XTS 5000	Technisonic Industries, LTD.
Test Case	Description				
2.2.3	Unit-to-Unit Voice Call				
2.2.3.4.1	Test Case 1 – Unit-To-Unit Call With Target Availability Check				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.3.4.2	Test Case 2 – Unit-To-Unit Call Target Availability Check Denied By Target				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.3.4.3	Test Case 3 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment after target availability check				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.3.4.4	Test Case 4 – Unit-To-Unit Call Queued With Target Availability Check – traffic channel assignment before target availability check				
	Home Operation	N/A 1	N/A 1	N/A 1	N/A 1
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3

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EF Johnson ATLAS 4500 Trunked Repeater		EF Johnson Viking VP900 Portable	Kenwood NX-5400 Portable	Motorola XTS 5000	Technisonic Industries, LTD.
Test Case	Description				
2.2.3	Unit-to-Unit Voice Call				
2.2.3.4.5	Test Case 5 – Unit-To-Unit Call Without Target Availability Check				
	Home Operation	N3	N3	N3	N3
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.3.4.6	Test Case 7 – Unit-To-Unit Call Queued Without Target Availability Check				
	Home Operation	N3	N3	N3	N3
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.3.4.7	Test Case 8 – Unit-To-Unit Call Denied				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3

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EF Johnson ATLAS 4500 Trunked Repeater		EF Johnson Viking VP900 Portable	Kenwood NX-5400 Portable	Motorola XTS 5000	Technisonic Industries, LTD.
Test Case	Description				
2.2.4	Broadcast Voice Call				
2.2.4.4.1	Test Case 1 – Broadcast Voice Call				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.5	Affiliation				
2.2.5.4.1	Test Case 1 - Radio Permitted To Affiliate With New Group				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.5.4.2	Test Case 2 - Radio Denied Affiliation To New Group				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.6	Announcement Group Call				
2.2.6.4.1	Test Case 1 - Collection Of Talk Groups Receive Call				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.7	Emergency Alarm				
2.2.7.4.1	Test Case 1 - Emergency Alarm				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3

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EF Johnson ATLAS 4500 Trunked Repeater		EF Johnson Viking VP900 Portable	Kenwood NX-5400 Portable	Motorola XTS 5000	Technisonic Industries, LTD.
Test Case	Description				
2.2.8	Emergency Group Call				
2.2.8.4.1	Test Case 1 - Emergency Call				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.10	Encryption				
2.2.10.4.1	Test Case 1 - Call Privacy For Encrypted Call				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3
2.2.11	Intra-Location Registration Area Roaming				
2.2.11.4.1	Test Case 1 – Idle Radio				
	Home Operation	P	P	P	P
	Inter-System Operation	N3	N3	N3	N3
	Inter-WACN Operation	N3	N3	N3	N3

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Model Class Definition	Applied to P25-CAB-CAI_Test_Req March 2010, 2.2.3.2	
Model Class Name	Product Name, Definition, and Unique ID	Installed Options
ATLAS 4500 UHF Repeater	ATLAS 4500 Trunked Repeater	Firmware: 1.0.1_27
		DSP: 107000000174

Test Case Result Definitions	
No Test Performed	---
Test Does Not Apply to the Test Object	N/A
Test Object Meets Requirements	P (Pass)
Test Object Does Not Meet Requirements	F (Fail)
Test Object is Not Conclusive	I (Inconclusive)

Comments
N/A 1: Test cases 2.2.3.4.4 is not applicable for this base station/repeater; see results of test 2.2.3.4.3
N1: The receiver does not incorporate a vocoder.
N2: The transmitter does not incorporate a vocoder.
N3: The EF Johnson ATLAS TSNI infrastructure does not support this feature.
N4: The Johnson Atlas 4500 Repeater uses a multi-block message for explicit channel assignments in 700-800 MHz bands.
N5: The EF Johnson 4500 series repeater utilizes common trunking controller software that resides in the TSNI module which is utilized throughout all frequency bands. Therefore, EF Johnson defines a common model class for all frequency bands for the purposes of trunking interoperability.

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OMB NO: 1640-0015

EXPIRATION DATE: 07/31/2015 New OMB Date: 04/30/2016 - KRT for DHS OIC

Burden Statement

An agency may not consider or sponsor information collection and a person is not required to respond to this information collection unless it displays a current valid Office of Management and Budget control number and expiration date. The control number for this collection is 1640-0015 and this form will expire on 07/31/2015. The estimated average time to complete this form is 60 minutes per respondent. If you have any comments regarding the burden estimate you can write to Department of Homeland Security, Science and Technology Directorate, Washington, DC 20528.

DHS FORM 10056 – June 2009