

7/27/22, 11:52 AM	HP 58503B GPS standard upgrade - Page 1					
🔒 🖂 🖗	http://syncchannel.blogspot.com/					
	What are you looking to get out of an upgrade? A better GPS receiver will certainly allow it to lock faster, but these devices are meant to be left powered up, so that doesn't seem too important. It might track more satellites, but I'm not sure if that will make the frequency output more accurate. For sensitivity, what kind of antenna are you using? On my similar unit I'm using a CGDSGPSTMG20N which works well, it's able to consistently track 7 or 8 satellites.					
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jpb Super Contributor	Re: HP 58503B GPS standard upgrade « Reply #3 on: August 04, 2020, 09:40:05 am »	Say Thanks	Reply	Quote		
Posts: 1769 Country: 📰	The Furuno GT-8736 board is designed as a Motorola replacement I think: https://www.buerklin.com/en/MULTI-GNSS-RECEIVER-GT-8736C/p/64S3196 but I have no idea if this would work or not - you'd probably need to do a lot of customization.					
	I'd also think that the firmware would not take advantage of it anyway if it was written for a board tracking just 8 satellites or what ever it is. Better to concentrate on getting a good timing antenna when the older GPS board will perform well anyway if it has a good signal from a few a satellites.					
		Report to mod	lerator 🎦	. Logged		
jfphp Regular Contributor	Re: HP 58503B GPS standard upgrade « Reply #4 on: August 04, 2020, 10:13:52 am »	Say Thanks	Reply	Quote		
<mark>-</mark> Posts: 225 ₽ ⊠ Q	Thank you for answers. The GPS receiver is on the second floor of the house and the antennaLucent 26db gain conical is just above in the attic, the cable passing through the ceiling : I guess that this system introduces a little delay-frequency shift following the way through the tiles. The roof was recently thermaly insulated with a thick layer of ? covered with a tiny aluminium foil. GPS out, no satellite seen The GPS of my labtop receives, in less than 1 minute on the first floor, a dozen of satellites. I have observed on the field that receiving a dozen of satellites gives a more precise position than receiving 48.					
		Report to mod	lerator 💾	Logged		
testpoint1 Frequent Contributor	Re: HP 58503B GPS standard upgrade « Reply #5 on: August 04, 2020, 02:57:34 pm »	Say Thanks	Reply	Quote		
Posts: 292 Country: 🚟	maybe is VP oncore chip (6 channel), just follow my SSR-6T GPS Receiver testing, since the CCP Virus, may delay 2-3 weeks. Report to moderator 🏼 Logged					
notfaded1 Frequent Contributor	Re: HP 58503B GPS standard upgrade « Reply #6 on: August 04, 2020, 04:44:30 pm »	Say Thanks	Reply	Quote		
	Is this the adaptor board that enables using newer GNSS hardware on old gear like this?					
	Bill					
Posts: 556 Country: 🔤	SSR-Series-Adaptor-Boards-for-UT-TN486.pdf (387.5 kB - downloaded 89 times.)					
	Report to moderator 🖁 Logged					
	.ılılıılılı. notfaded1					
testpoint1 Frequent Contributor	Re: HP 58503B GPS standard upgrade « Reply #7 on: August 05, 2020, 02:46:51 am »	Say Thanks	Reply	Quote		
Posts: 292 Country: 🔤 🎤 🖂 📿	yes, but need to test it.	Report to mod	lerator 👫	. Logged		
TheSteve Supporter	Re: HP 58503B GPS standard upgrade « Reply #8 on: August 05, 2020, 04:02:55 am »	Say Thanks	Reply	Quote		
	A replacement GPS receiver would be nice. I would think many different ones could be used with					

A replacement GPS receiver would be nice. I would think many different ones could be used with some protocol conversion. Really though the best solution with a 58503B is an external antenna.

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Posts: 3490 Country:	VE7FM		
Living the Dream \bigcirc			
texaspyro Super Contributor	Re: HP 58503B GPS standard upgrade « Reply #9 on: August 06, 2020, 07:13:43 am »	Say Thanks Re	eply Quote
Posts: 1407	There is a company in France that makes a replacement receiver for the remember who it was talked about on time-nuts.		
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FriedLogic Regular Contributor Posts: 115 Country:	Re: HP 58503B GPS standard upgrade « Reply #10 on: August 06, 2020, 06:52:20 pm »	Say Thanks Re	eply Quote
	Heol Design did a replacement for some old Trimble receivers.	Report to moderato	r 🎘 Logged
texaspyro Super Contributor Posts: 1407	Re: HP 58503B GPS standard upgrade « Reply #11 on: August 07, 2020, 06:06:52 am »	Say Thanks Re	eply Quote
	Quote from: FriedLogic on August 06, 2020, 06:52:20 pm		
	Heol Design did a replacement for some old Trimble receivers.		
	Yes. that's the one I am thinking about. They are not cheap, but not o sticks in my mind.	overly expensive. \$25	
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