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Next

ATSC tuner performs a channel analysis, finds the seA±al on channel 43, learns that the seA±al is called "Channel 4" and remembers that mapping. The user can tune in to "4", and the tuner will know how to tune in 43. After performing a scan, it can be possible to access the programs directly by tuning ± a manual, by entering 43A± Å 1, 43A± Å Å 2... After scanning, programs are usually accessed by entering 4A± Å 1, 4-2 etc., but it can still be possible to access them directly at 43 as long as it is not the same as an already assigned channel. If the stations change their broadcast frequencies, it may be possible to access the new frequencies directly, as long as it is not the same as an already assigned channel, in which case go to that channel instead of the frequency, but the usual procedure is to re-scan all channels that only assign multiple versions of any superimposed channel.[citation required] See also ATSC DVD recorders Digital broadcasting Switching ± digital Television± digital terrestrial Television± n high definition ± n in the United States QAM tuner (radio) References ^ "FCC INTRODUCES PHASE-IN PLAN FOR DTV TUNERS" (PDF). FCC. 2002-08-08. Recovered 2006-06-05. ^ "Requirements for the capacity of reception± n digital television± n" (PDF). FCC. 2005-11-08. Recovered 2006-06-05. ^ "FCC raises the date of the DTV tuner, broadens the reach". TWICE. 2005-11-21. Archived from original in 2007-02-05. 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"Table of Frequencies of Television± n". Recovered 2009-06-16. External links The FCC Patent DTV information site and regal information± 2006-12-27 Enabling TV tuner technology for fully digital cable networks[permanent dead link] Recovered from " Page 2± n all modulation used by the US ATSC digital television ± This article is about the most ± modulation of television± n. For certification ± SBE, see Certified 8-VSB Specialist. 8VSB is the most modulation ± used for broadcasting ± the digital television ± ATSC standard. ATSC and 8VSB modulation ± mainly used in North America; In contrast, the DVB-T standard uses COFDM. A modulation ± specifies how ± flow to the radio station to transmit ± information. ATSC and DVB-T specify the modulation ± used for digital ± television; In comparison± QAM is the most modulation ± used for cable. The specifications for a cable-ready TV, then, may indicate that it is compatible with 8VSB (for broadcast TV± n) and QAM (for cable TV). 8VSB is a vestigial side band modulation ± 8 levels. In essence, it converts a binary flow into an octal representation ± by the amplitude displacement key of a sinusoidal carrier to one of eight levels. 8VSB is capable of transmitting three bits (23=8) per symbol; In ATSC, each symbol includes two bits of the MPEG transport stream that are entangled and modulated to produce a three-bit figure. The resulting seA±al is filtered by a Nyquist filter to eliminate redundancies in the lateral ± and then ± moves to the emission frequency± n Modulation technique ± Vestigial lateral band modulation (VSB) is a ± of modulation that tries to eliminate the spectral redundancy of pulse-amplitude modulation (PAM) sequences. The modulation ± a carrier by a sequence of real-value data results in a sum and a frequency of difference, resulting in two sin carrier bands. The simeterA± means that one of the side bands is redundant, so the elimination ± a side band still allows the demodulation ± n. Since zero-transition bandwidth filters cannot be performed, ± implemented filtering leaves a vestige of the redundant sideband, hence the name A± Å VSB± Å Å Å . Performance In the 6 MHz (megahertz) channel used for ATSC broadcast, 8VSB has a symbol rate of 10.76 megabaud, a gross bit rate of 32 Mbit/s and a net bit rate of 19.39 Mbit/s of usable data. The net bit rate is lower due to the addition ± cA± n correction codes ± n of forward errors. The eight levels of seA±al are selected using a lattice encoder. There are also similar modulations ± VSB, 4VSB, and 16VSB. 16VSB was especially intended to be used for ATSC digital cable, but quadrature amplitude modulation (QAM) has ± become the de facto industry standard rather than being cheap and readily available. Energy Savings Advantages± discussed± A significant advantage of 8VSB for broadcasters is that it requires much less power to cover a comparable area to the previous NTSC system, and it is said to be better at this than the most common alternative system, COFDM.[citation required] Part of the advantage is the lower ratio ± peak to average power required comparison with COFDM.[required quote] An 8VSB transmitter needs to have a maximum power capacity of 6 db (four times) its average power.[required quote] 8VSB is also more resistant to impulse noise.[required quote] they cover the same area while transmitting with an effective radiated power of approximately 25% of the broadcast power± n analog±.[required quote] Although NTSC and the largest of the other television systems± an analog ± also Do not use a vestigial sideband technique, the unwanted sideband is filtered much more effectively ATSC 8VSB transmissions. 8VSB uses a Nyquist filter to achieve this. ReedA± Solomon Å bug fix is the primary system used ± maintain data integrity. In the summer of 2005, the ATSC published standards for improved VSB or E-VSB ± n. Using advanced error correction± the E-VSB standard will allow DTV reception ± low power port± n tiles receivers with smaller antennas much like DVB-H does in Europe, but using a transmission± n n 8VSB. Disputes over the use of ATSC for some time, there was continued lobbying to change the modulation ± ATSC to COFDM, the way DVB-T is transmitted in Europe, and ISDB-T in Jap± n. However, the FCC has always maintained that ± VSB is the best modulation ± use in U.S. digital television broadcasting± n in a 1999 report, the Commission± n found that 8VSB has better threshold or carrier-noise (C/N) performance, has a higher data rate capacity, requires less transmitter power for equivalent coverage and is more robust for momentum and phase noise± n. Consequently, in 2000, a request for regulation by the Sinclair Broadcast Group was denied± requesting that broadcasters be allowed to choose between 8VSB or COFDM as appropriate for their coverage area± n. The FCC report also acknowledged that "COFDM is generally expected to perform better in situations where there are multiple dynamic routes," such as operating ± or in the presence of trees moving in high winds. However, with the introduction ± 5th Generation demodulators in 2005 and subsequent improvements in generations 6 and 7, the equalization interval is now around 6± 60 to +75 microseconds (an extension ± 135 microseconds) and has virtually eliminated the multipath, both static and dynamic, on the 8VSB ±. In comparison± the EQ± range in COFDM is to Å 100 to +100 microseconds (propagation ± 200 microseconds), but the application ± this protective band space ± COFDM substantially reduces its payload. In fact, much of Europe has adopted the 1280Å Å 720p as the HD standard for DVB-T1 due to its reduced payload capacity [quote required]. The introduction ± DVB-T2 aims to increase the capacity of terrestrial transmissions to carry 1920Å Å 1080p content. 1920Å Å 1080i has always been part of the 8VSB scheme since its inception, and its improved demodulators have had no effect on its innate payload capacity [citation required]. Due to the continued adoption ± the 8VSB-based ATSC standard in the U.S., and a large population ± growing ATSC receivers, a switch to COFDM will be a challenge. The largest number of terrestrial ± broadcasts in the United States went off in June 2009, and 8VSB tuners are common to all new TVs, complicating even more of a future transition ± to COFDM. However, with the development of ATSC 3.0, an updated version ± the American digital TV standard designed for mobile reception ± nA± and better performance of the single frequency network, ATSC has decided to make the switch to OFDM with LDPC error correction (essentially COFDM± n).± n. As a result, ATSC 3.0 will be incompatible with all current ATSC 1.0 receivers, and viewers will need a new TV with a compatible tuner or converter box ora.[5] Unlike the previous digital TV ± that was ordered by the FCC, the "transition± n n to ATSC 3.0 will be entirely voluntary. In addition, the FCC has required broadcasters that decided to switch to ATSC 3.0 to continue to offer their primary channel through a simulcast agreement ± another market station (with a similar coverage area) ± at least 2022± n. Sinclair annunciA± its intention ± bring ATSC 3.0 to 40 by 2020.[7] 8VSB vs COFDM The FCC report quoted above also found that COFDM performs better in dynamic and high-level multipath static situations, and offers advantages for single-frequency networks and ± n m± Å vil. However, in 2001, a technical report prepared by the COFDM Technical Group concluded that COFDM offers no significant advantages over 8VSB. The report recommends conclusion" that the receivers must be connected to raised outdoor antennas approximately 9 m high. Neither 8VSB nor COFDM were performed in an acceptable manner in most indoor testing facilities.[8] However, there were questions [Å Who?] as to whether the COFDM receiver selected for these tests "Å a transmitting monitor [2] that lacks normal front filtering" Å color± these results. Testing using the same COFDM receivers with the addition ± a front band pass filter yielded much better results for the DVB-T receiver, but no further testing was conducted.[3][permanent dead link] The debate over modulation ± n 8VSB versus COFDM is still ongoing. COFDM advocates argue that it resists multipath much better than 8VSB. This is an important modulation property ± receive HDTV in, for example, more ± vehicles that is not possible with 8VSB. The first 8VSB DTV receivers (± digital TV) often have difficulty receiving a signal in urban environments. The new 8VSB receptors, however, are better for dealing with multiple routes, but a moving receptor still cannot receive the seA±al. In addition, modulation ± 8VSB requires less power to transmit a signal over the same distance. In less populated areas, 8VSB can outperform COFDM because of this. However, in some urban areas, as well as for ± use, COFDM can offer a better reception ± than 8VSB. Several "enhanced" VSB systems were being developed, notably E-VSB, A-VSB and MPH. The deficiencies in 8VSB regarding multipath reception± can be solved by using cA± n correction codes ± additional forward errors that decreases the useful bit rate, such as that used by ATSC-M/H for mobile reception ± nA± / port± n til. ATSC 3.0, the ± most important television± n in the United States, use± COFDM. The vast majority of TV stations ± U.S. use COFDM for their study to broadcast links and news gathering operations [quote required], these are point-± to-point communication links, not broadcast transmissions. V± Å also ATSC tuner ATSC-M/H for receivers ± port± n tiles References ^ Sparano, David (1997). "WHAT EXACTLY IS 8-VSB ANYWAY?" (PDF). Accessed November 8, 2012. å DTV REPORT ON COFDM AND 8-VSB PERFORMANCE (PDF). 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Fierce video. Archived from the original on March 8, 2021. Retrieved March 8, 2021. ^ 8VSB/COFDM Comparison Report Archived ± 2005-11-22 on the Wayback Machine External Links Å What exactly is 8-VSB anyway? The DVB-T is a multiplexing system by ± orthogonal frequency coded or COFDM for short, but also is the cable (DVB-C) and satA± lite (DVB-S). The DVB-T is such as QPSK QAM or Quadrature Phase Shift Keying and Quadrature Amplitude Modulation. The DVB-S is implemented as QPSK QFM or Modulation±Quadrature-Phase Change Keyboard Frequency Quadrature. The DVB-C is QPM QAM or Phase Modulation± Square ± Amplitude Modulation. Obtained from " " .

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